Appendix 2

Closed Section 319 Grants – FFY 1990 - 1999

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Title: Stormwater Management Assistance Program

Purpose: General stream maintenance was performed under this project. Beaver dams were removed from Klein Creek (ILGBK05). Debris removal, canopy thinning, and bank re-vegetation were performed on 0.98 miles of Sawmill Creek (ILGJ01) and 5.15 miles of Winfield Creek (ILGBK05). Biotechnical streambank stabilization (A-jacks, lunkers, willows, and rock weir) was performed on 500 feet of Glencrest Creek (ILGBL10).

Project Location: DuPage County

Subgrantee: DuPage County Department of Environmental Concerns
DuPage Center, 421 North County Farm Road
Wheaton, Illinois 60187

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
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<td>580</td>
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<td>32,866 ft.</td>
<td>328</td>
<td>205</td>
<td>559</td>
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Title: Wetland Protection Program Development

Purpose: Two parcels of land, totaling approximately 242 acres, were acquired for wetland protection in areas of the Cache River (ILIX04) basin.

Project Location: Johnson County

Subgrantee: Illinois Department of Conservation
524 South Second Street
Springfield, Illinois 62707

BMP Implementation Summary:

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<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
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<td>006</td>
<td>Wetland Acquisition</td>
<td>242 ac.</td>
<td>NA</td>
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90-3(319)SR | 90-9(319)SR
**Title:** Stream Corridor Initiative

**Purpose:** Environmentally sound biotechnical practices were implemented to arrest streambank erosion on a section of the Middle Fork of the Vermilion River (ILBPK07).

**Project Location:** Vermilion County

**Subgrantee:** Illinois Department of Conservation  
524 South Second Street  
Springfield, Illinois 62701

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
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<th>Phosphorus (lbs/year)</th>
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**Title:** Construction Erosion Control Initiative

**Purpose:** A multi-county implementation plan and ordinance was prepared which identified the inadequacies of existing regional soil erosion and sedimentation control programs, identified and evaluated experimental and innovative management alternatives and their applicability in the region, and recommended specific actions to reduce, eliminate, and regulate soil erosion. The project attempted to achieve agreement among local governments relating to the nature and scope of the implementation plan and ordinance.

**Project Location:** Counties of Peoria, Woodford, Tazewell, and Marshall

**Subgrantee:** Peoria County Department of Land Resources  
Peoria County Court House  
324 Main Street  
Peoria, Illinois 61602
Project Reports and Other Informational Materials:


Title: Butterfield Creek Urban Nonpoint Source Management Plan

Purpose: An assessment was prepared which defined the specific causes of nonpoint source impairment based on water quality and physical stream conditions. The significance of suspected nonpoint sources was identified and prioritized. A Preliminary Nonpoint Source Management Plan for Butterfield Creek (ILHBDB03) was prepared which recommended a control program addressing both structural and nonstructural measures to mitigate existing problems and minimize future impacts.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:


Title: Livestock Waste Regulation

Purpose: Livestock operation owners and operators were educated and advised on regulatory restrictions, site design, land application practices, and utilization of management practices such as filter strips.

Project Location: Statewide

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:


Title: Pesticide Monitoring Survey

Purpose: The United States Geological Survey (USGS), as part of the Toxic Substances Hydrology Program, in cooperation with the Illinois EPA installed automatic samplers for the collection of surface water samples in three watersheds in Illinois. The samples were used to determine the magnitude and duration of concentrations of triazine herbicides during the first runoff event following the application of herbicides in 1990. The three sites were selected to represent different areas of the state and different size drainage basins. The predominate land use in the selected sites is agricultural with a crop rotation of corn and soybeans.

Project Location: Counties of Iroquois, Piatt, and St. Clair

Subgrantee: U.S. Geological Survey
102 East Main Street
Urbana, Illinois 61801

Project Reports and Other Informational Materials:


Title: Biological Data Management

Purpose: The Illinois EPA enhanced its watershed assessment capabilities, including improved data management, assessment of key nonpoint source pollution indicators, and greater utilization of biological indicators through the use of the Biological Data System (BIOS).

Project Location: Statewide

Subgrantee: Not Applicable
Title: Regional Ground Water Protection Program and Needs Assessment

Purpose: Well site surveys were utilized to identify specific locations for maximum setback zones and initiate regulating procedures to restrict land use activities within those zones as a demonstration of the setback initiative as a ground water protection practice. Cost-share assistance was provided for demonstration purposes to a geographically select group of municipal water supply authorities to conduct needs assessments for long term protection of ground water.

Project Location: Counties of McHenry, Boone, Winnebago, Peoria, and Tazewell

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:

FFY 1991 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Butterfield Creek Detention Basin Retrofit

Purpose: A stormwater detention basin was redesigned and retrofitted to provide water quality benefits to Butterfield Creek (ILHDB03). Documentation was provided for the retrofit of the basin, the effectiveness of the basin, and the estimated cost and impact of a watershed wide retrofit program.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<td>Urban Stormwater Wetland</td>
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Title: Sealing of Abandoned Water Wells and Mine Holes

Purpose: 180 abandoned mine holes and/or water wells in JoDaviess County were sealed in accordance with procedures and specifications developed by the Illinois Department of Public Health. In cooperation with the Cooperative Extension Service and County Health Department, demonstrations on the proper sealing of mine holes and water wells were conducted.

Project Location: JoDaviess County

Subgrantee: JoDaviess County Soil & Water Conservation District
227 North Main Street
Elizabeth, Illinois 61028
BMP Implementation Summary:

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Title: Urban Site Drainage Training Course

Purpose: A three day training course was developed and presented which was designed to educate consulting engineers, landscape architects, contractors, permit reviewers and inspectors, and other governmental agency staff in the incorporation of nonpoint source control best management practices into urban drainage design. The course focused on minimizing the impacts of development on stream uses caused by decreased low flows, increased high flows, increased duration of high flows, and increased pollutant loadings.

Project Location: Statewide

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:


Title: Construction Site Erosion Control Video

Purpose: A videotape was prepared and produced describing the basic concepts and procedures for minimizing the effects of erosion through construction site planning and design, soil stabilization, sediment and runoff controls, and site inspection and maintenance. The videotape provides guidance on control practices and recommends more detailed references for designing and implementing specific controls.

Project Location: Statewide

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:

Title: Sequoit Creek Watershed Management Project (Phase 1)

Purpose: Information was compiled for the preparation of a nonpoint source analysis of the Sequoit Creek watershed along with specific nonpoint source management plans to address identified problems. Technical assistance was provided to local governments in reviewing soil erosion and sedimentation control plans. Baseline monitoring water quality data for lakes in the Sequoit Creek watershed were collected and compiled.

Project Location: Lake County

Subgrantee: Lake County Soil & Water Conservation District  
70 South U.S. Highway 45, Suite 205  
Grayslake, Illinois 60030-2208

Title: Sequoit Creek Watershed Management Project (Phase 2)

Purpose: Building upon the information collected under Phase 1, a nonpoint source analysis of the Sequoit Creek watershed was prepared along with specific nonpoint source management plans to address identified problems.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission  
222 South Riverside Plaza, Suite 1800  
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:


Title: Siloam Springs Riparian Protection Project

Purpose: Vegetative grade controls were constructed in the Siloam Springs Lake (ILRDB) watershed which were designed to trap and treat pollutants in the water prior to its discharge to the lake as well as to enhance and protect recreation and wildlife resources of the watershed.
Project Location: Adams County

Subgrantee: Illinois State Water Survey
c/o University of Illinois
506 South Wright Street
Urbana, Illinois 61801

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<td>410</td>
<td>Grade Stabilization Structure</td>
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Title: Ground Water Ecotoxicity Assessment

Purpose: This project supported the scientific development of a ground water ecotoxicity assessment and field sampling protocol. The development process targeted testing sites to evaluate nonpoint source contributions.

Project Location: Statewide

Subgrantee: Not Applicable

Title: Ground Water Setback Zones

Purpose: This project continued the Illinois EPA’s efforts directed at identifying and regulating certain activities around community wells by proposing maximum setback zones. The Illinois EPA used available hydrogeologic information, monitoring, survey, and needs assessment data to propose maximum zones in priority areas where no local action has been taken. The process considered nonpoint source impacts and assessments. Additionally, the Illinois EPA evaluated wells utilizing alluvial aquifers that are 1,000 feet from public waters for the purpose of proposing maximum zones. Section 14.3(f) of the Illinois Groundwater Protection Act provides authority to establish maximum setback zones up to 2,500 feet from the wellhead. Maximum setback zones established in these settings prohibit new potential routes.
potential routes include drainage wells of all kinds. Three maximum setback zones were proposed.

**Project Location:** Statewide

**Subgrantee:** Not Applicable

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

**Subgrantee:** USDA Soil Conservation Service
1902 Fox Drive
Champaign, Illinois 61820
FFY 1991 FEDERALLY FUNDED SECTION 319 GREAT LAKES SET ASIDE PROJECTS

Title: Waukegan River Bank Stabilization and Management

Purpose: Vegetative (grasses, dogwoods, and willows) and structural (A-jacks and lunkers) streambank stabilization was performed on the Waukegan River (ILQCA01) at Washington Park and Powell Park. City and Park District personnel were trained in practice implementation. Nonpoint source regulations were also developed.

Project Location: Lake County

Subgrantee: Waukegan Park District
2000 Belvidere Street
P.O. Box 708
Waukegan, Illinois 60079

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<td>91-9(319)SR</td>
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</table>

Title: Waukegan River Rock Riffle Restoration Project

Purpose: Six stone weirs (riffles) were created on the Waukegan River (ILQCA01) in Washington Park which were designed to reduce channel incision (erosion of the streambed), enhance habitat, improve stream stability, and increase water aeration.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:

**BMP Implementation Summary:**

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<td>584</td>
<td>Stream Channel Stabilization</td>
<td>600 ft.</td>
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<td>49</td>
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</table>

Title: Nonpoint Source Pollution & Stream Ecology Exhibit

Purpose: An exhibit was designed, constructed, and placed on display at the Shedd Aquarium in Chicago. The exhibit includes a divided aquarium with one half designed to resemble a healthy stream environment and the other half illustrating polluted stream conditions. Both halves were stocked with fish species of an appropriate pollutant tolerance level and native to Illinois. The qualities indicative of a healthy and degraded stream environment were identified and described. The exhibit also presents information concerning the nonpoint sources of pollution which threaten the quality of Illinois’ streams and the methods by which those threats may be minimized. The purpose of this project is to enhance the public’s understanding of the value and function of streams, nonpoint source pollution and its impact on water quality, and what can be done to protect Illinois’ water resources.

Project Location: Cook County

Subgrantee: John G. Shedd Aquarium
            1200 South Lake Shore Drive
            Chicago, Illinois 60605

Title: Waukegan River Habitat Evaluation Project

Purpose: This project created a process to establish a quantifiable habitat index for the Waukegan River rehabilitation project and to enhance the Waukegan River National Monitoring Strategy. A habitat index was established for the Waukegan River related to existing and proposed water quality conditions. A report was prepared documenting utilization of the habitat index on a local and regional scale.

Project Location: Lake County

Subgrantee: Not Applicable

Title: The Environment Exhibit

Purpose: This Environment Exhibit was designed to present key concepts and principles of environmental science and technology and thereby help people examine,
understand, and affect environmental issues. Information on nonpoint source pollution and related water quality issues was incorporated into the exhibit. The exhibit communicates the impacts of nonpoint source pollution, the importance of water quality protection, and what can be done to minimize nonpoint source pollution and protect water quality.

Project Location: Cook County

Subgrantee: Museum of Science and Industry
57th Street and Lake Shore Drive
Chicago, Illinois 60637-2093

91-15(319)SR
Title: Assessment Procedures for Rural Ground Water

Purpose: A series of site assessment and information documents were prepared to assist farmers in identifying potential farmstead sources of ground water contamination and in prioritizing management and structural changes to minimize the risk of ground water pollution. The Illinois Department of Agriculture (IDOA) developed ground water protection materials tailored to Illinois’ needs, conducted a pilot program utilizing these materials, printed and distributed copies of the materials to farmers wishing to participate, and held three regional training workshops for soil and water conservation district staff using the developed materials.

Project Location: Statewide

Subgrantee: Illinois Department of Agriculture
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-9281

Title: Regional Ground Water Vulnerability Assessment

Purpose: A program was established to identify those regions of the state that are vulnerable to agricultural chemical ground water contamination, and determine what management practices are the most effective for reducing the threat of contamination. The Illinois Department of Agriculture (IDOA) correlated geologic/hydrologic data with pesticide-soil interaction data and agricultural chemical use to identify those regions of Illinois with high potential for ground water contamination. IDOA also researched and reviewed ongoing management strategies and recommended management practices for reducing the threat of aquifer contamination.

Project Location: Statewide

Subgrantee: Illinois Department of Agriculture
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-8281

Project Reports and Other Informational Materials:


92-1(319)JC
Title: Lake Pittsfield 314/319 Restoration Project

Purpose: This project demonstrated the cumulative effectiveness in reducing sediment transport to Lake Pittsfield (ILRDP) of a single sediment basin on the upper end of Lake Pittsfield and a series of small settling basins (ponds) located on minor tributaries prior to their discharge into Blue Creek. This project supplements the implementation of recommendations contained in the Phase I report funded under Section 314 and to be achieved through Phase II.

Project Location: Pike County

Subgrantee: Pike County Soil & Water Conservation District
1319 West Washington Street
Pittsfield, Illinois 62363

BMP Implementation Summary:

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<td>Nitrogen (lbs/year)</td>
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<td>Sediment Basin</td>
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<tr>
<td>378</td>
<td>Pond</td>
<td>29 (no.)</td>
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</table>

Title: National Monitoring Strategy

Purpose: This project demonstrated the effects of land management on Lake Pittsfield (ILRDP) sedimentation and water quality.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
c/o University of Illinois
109 Coble Hall, 801 S. Wright St.
Champaign, Illinois 61820

Project Reports and Other Informational Materials:


Title: Big Hollow Creek Watershed Management Project

Purpose: Both structural grade control and vegetative stabilization were implemented in the urban Big Hollow Creek watershed to control stream and bluff erosion.
**Project Location:** Peoria County

**Subgrantee:** Heartland Water Resources Council of Central Illinois  
Commerce Bank Building  
416 Main Street, Suite 828  
Peoria, Illinois 61602-1116

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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</table>

92-5(319)ME
FFY 1993 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Nature Preserves Ground Water Quality Protocol

Purpose: The primary objectives of this project were to design, develop, and demonstrate a methodology to determine potential threats to groundwater and the detection of potential damage to Nature Preserves due to off-site activities from agricultural practices and urbanization. This was accomplished by determining where sites occur in relation to sensitive aquifers and developing geohydrologic information on those Nature Preserves which are estimated to contain unique habitats related to ground water discharge. On one site, a detailed geologic/hydrologic characterization was conducted.

Project Location: Statewide

Subgrantee: Illinois Nature Preserve Commission
524 South Second Street
Springfield, Illinois 62701-1787

Title: Paris Twin Lakes Restoration and Management

Purpose: This project demonstrated a holistic approach to in-lake and watershed treatment to enhance the water quality and recreational uses of Paris Twin Lakes (ILRBL, ILRBX) through the coordination of the Section 314 Federal Clean Lakes Program and the Section 319 Nonpoint Source Management Program. This was accomplished utilizing 319 funds to implement 8 grassed waterways, 4,800 feet of terraces, 500 feet of waterway diversions, 1 rock chute, 2 concrete block chutes, rip rap streambank stabilization, 1 concrete crossing, 5.2 acres of buffer zones, and 1 sediment retention basin.

Project Location: Edgar County

Subgrantee: Edgar County Soil & Water Conservation District
R.R. # 6, Post Office Box 89C
Paris, Illinois 61944

Project Reports and Other Informational Materials:

Title: Lake Taylorville Wetland Demonstration/Education

Purpose: The city of Taylorville implemented a public education program highlighting Lake Taylorville (ILREC) and its water quality. Five sediment basins and five wetlands were designed, constructed, and vegetated to reduce sedimentation to the lake and to improve water quality through the additional nutrient uptake. Wetland training workshops were held concerning topics such as wetland construction, wetland vegetation, and/or wetland maintenance. News releases were also issued concerning project implementation.

Project Location: Christian County

Subgrantee: City of Taylorville
Municipal Building
115 North Main
Taylorville, Illinois 62568

Project Reports and Other Informational Materials:


Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project identified sources of sediment and the efficiency of sedimentation control practices on the tributary watershed of Lake Pittsfield. This project was initiated with Section 319 funding in FFY92. The project is a cooperative Section 314/319 effort for lake restoration and water quality improvement.
**Project Location:** Pike County

**Subgrantee:** Illinois State Water Survey  
1320 S.W. Monarch  
Peoria, Illinois 61

**Project Reports and Other Informational Materials:**


93-4(319)GE

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**Title:** Skokie River Restoration Project

**Purpose:** Through the implementation of bank stabilization and restoration techniques, this project mitigated nonpoint source pollution to the Skokie River (ILHCCD09) and downstream lagoons. The project also enhanced the aquatic habitat and uses of the Skokie River. Restoration measures applied include: prairie buffer plantings, created oxbow excavations, restored floodplain wetlands, bank stabilization through brush layering with willows and dogwoods, bank toe protection and redirected thalweg through use of biologs with prairie cord grass and emergent wetland plants, willow posts for protection of rip rap and outlet pipes and weir wall, in-stream habitat structure (riffles), and bank stabilization through 3 foot buffer along entire stream. A multi-faceted educational program was also implemented as part of the project.

**Project Location:** Cook County

**Subgrantee:** Chicago Botanic Gardens  
Post Office Box 400  
Glencoe, Illinois 60022

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>1.1 ac.</td>
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93-5(319)SR
Title: Constructed Wetlands & Sustainable Agriculture

Purpose: This project constructed three small wetlands within the small watershed of a tributary of Richland Creek – South (ILOC04) to filter contaminants from surface water. The project was designed to determine the effects sustainable agricultural practices have on reducing nitrate and pesticide levels in surface water and also established an education and information program.

Project Location: St. Clair County

Subgrantee: Illinois Department of Agriculture
Division of Natural Resources
State Fairgrounds, P.O. Box 19281
Springfield, Illinois 62794-8281

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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93-6(319)JC

Title: Areawide Animal Waste Team

Purpose: Additional technical assistance was provided to livestock producers to reduce the backlog of requests. Operators were informed of best management practices (BMP) for animal waste management, and assisted in exploring and developing innovative technology to solve waste handling and runoff problems.

Project Location: 15 counties within the Southwestern Illinois RC & D

Subgrantee: Southwestern Illinois Resource Conservation and Development
406 East Main Street
Mascoutah, Illinois 62258

Project Reports and Other Informational Materials:

Title: Nonpoint Source Control on Richland & Senachwine Creeks

Purpose: To promote local control of nonpoint source pollution, a program of public education was conducted within the rural watersheds of Richland and Senachwine Creeks. The widespread implementation of biotechnical streambank stabilization projects was encouraged through 1) press releases in local news media, 2) construction of a mobile stream table which demonstrates erosion processes and its use at public events, 3) development of model operation and maintenance plans for potential streambank stabilization projects, and 4) outreach to local landowners.

Project Location: Counties of Woodford & Marshall

Subgrantee: Heartland Water Resources Council of Central Illinois
Commerce Bank Building
416 Main Street, Suite 828
Peoria, Illinois 61602-1116

Title: Charleston Side Channel Reservoir

Purpose: This project involved the application of an innovative shoreline erosion control program including willow planting posts, a raft wave barrier test program, rip rap and gabions where needed, and selective lakeshore tree removal on Charleston Side Channel Reservoir (ILRBC). In addition, the city conducted an educational program through Eastern Illinois University and the Charleston High School. A watershed landowner survey was done, with the information being used to create an educational brochure.

Project Location: Coles County

Subgrantee: City of Charleston
520 Jackson Avenue
Charleston, Illinois 61920

Project Reports and Other Informational Materials:

“Charleston Side Channel Reservoir Section 319 Grant, Non-point Sources Pollution Control Final Report.” July 1996. City of Charleston.

BMP Implementation Summary:

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<td>186</td>
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93-8(319)CD

93-9(319)CD
Title: Shabbona Lake Shoreline & Watershed Protection

Purpose: This project protected Lake Shabbona (ILVTU) from further sedimentation by constructing a wetland (sediment basin) in a portion of the lake’s watershed. No-till practices were promoted and a no-till drill made available for rental by farmers in the watershed. Shoreline stabilization (4,000 feet) on the lake was also implemented.

Project Location: DeKalb County

Subgrantee: DeKalb County Soil & Water Conservation District
315 North Sixth Street
DeKalb, Illinois 60115

BMP Implementation Summary:

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<td>Streambank/Shoreline Protection</td>
<td>4,000 ft</td>
<td>264</td>
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Title: Shallow Water Wetland Creation on Canyon Creek

Purpose: Construction of an embankment across the Illinois Canyon Creek created a one acre shallow pool designed to reduce stream velocities, trap sediment, and develop a shallow water wetland. Efforts were made during planning and design to increase the water retention time to maximize water quality benefits. A field day was held for the public once the practice was installed.

Project Location: LaSalle County

Subgrantee: LaSalle County Soil & Water Conservation District
Route 23 & Dayton Road
Ottawa, Illinois 61350

Project Reports and Other Informational Materials:

“Illinois Canyon Creek Project – An EPA 319 Non-Point Pollution Reduction Project – LaSalle County SWCD.” November 1995. LaSalle County Soil & Water Conservation District.

BMP Implementation Summary:

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93-10(319)CD

93-11(319)JC
Title: Chain-O-Lakes Fox River Shoreline & Bank Protection

Purpose: This project implemented bio-technical methods of shoreline and bank protection, giving significant emphasis to more natural or vegetative solutions and non-structural management solutions. Three sites, totaling 461 feet of on-stream lake shoreline on the Fox River (ILDT22) were stabilized using A-Jacks, fiber roll, erosion control blankets, Fiberdam, and vegetation.

Project Location: McHenry County

Subgrantee: Chain-O-Lakes Fox River Waterway Management Agency
64 East Grand, P.O. Box 451
Fox Lake, Illinois 60020

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<td>461 ft.</td>
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93-12(319)ME

Title: Palatine Streambank Stabilization Project

Purpose: Approximately 285 linear feet of streambank were stabilized along Salt Creek (ILGL09) through a combination of A-Jacks structures and dormant cuttings of native willows and dogwoods.

Project Location: Cook County

Subgrantee: Village of Palatine
Department of Public Works
148 West Illinois Street
Palatine, Illinois 60067

Project Reports and Other Informational Materials:

Title: Paris Restoration/Protection 314/319 Project

Purpose: This project demonstrated a holistic approach to in-lake and watershed treatment to enhance the water quality and recreational uses of Paris Twin Lakes (ILRBL, ILRBX) through coordination of the Section 319 Nonpoint Source Management Program and the Section 314 Clean Lakes Program. Section 319 funds were utilized to implement practices such as shoreline stabilization and sediment retention basin construction.

Project Location: Edgar County

Subgrantee: City of Paris
123 South Central Avenue
Paris, Illinois 61944

BMP Implementation Summary:

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<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
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<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>2,400 ft.</td>
<td>80</td>
<td>67</td>
<td>134</td>
</tr>
<tr>
<td></td>
<td>Sediment Basin</td>
<td>1 (no.)</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

Title: Nonpoint Source Pollution Concert/Celebration

Purpose: The John G. Shedd Aquarium, in cooperation with the Illinois EPA, developed a program for a Wetland Wonders and Pollution Prevention Festival held at the Shedd Aquarium on six consecutive days in May, 1996. The Festival accompanied the opening of the Shedd’s 1996 special exhibit, “Frogs: Wonders of the Wetlands.” The program was designed to enhance the public’s understanding of nonpoint source pollution and the importance of wetlands, lakes, and streams. The Festival included information and activities that explained the causes of NPS pollution, its impact on water quality, and what can be done to protect aquatic resources. The program included music, theater, storytelling, games, and similar events designed to educate as well as entertain.

Project Location: Cook County

Subgrantee: John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605
Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
     3300 South Golf Road
     Brookfield, Illinois 60513
Title: Englewood Environmental Protection Lot Reclamation Project

Purpose: This project demonstrated the benefits of water quality education and land restoration in an urban environment by reclaiming eight inner-city lots, implementing a storm drain stenciling program, and disseminating nonpoint source education materials. The reclamation of these lots reduced the amount of pollutants entering the water system, while simultaneously aiding in the revitalization of the Englewood community. Local youth were employed to implement the reclamation and to design and develop community gardens on the formerly abandoned lots.

Project Location: Cook County

Subgrantee: University of Illinois - Cooperative Extension Service
549 Bevier Hall, 905 S. Goodwin Avenue
Urbana, Illinois 61801

Project Reports and Other Informational Materials:

“A Project with SOUL.” (11.25 min. videotape) University of Illinois – Cooperative Extension Service.

BMP Implementation Summary:

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<tbody>
<tr>
<td>562</td>
<td>Recreation Area Improvement</td>
<td>1.6 ac.</td>
<td>?</td>
</tr>
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</table>

Title: Skokie Lagoons Shoreline Stabilization Project

Purpose: This project implemented shoreline restoration aimed at vegetative stabilization along approximately 2.5 miles of shoreline. The restoration focused on areas where the most erosion has occurred because these are the most significant targets for addressing nonpoint source pollutants. Treatment of the shoreline extended beyond the water's edge and into the floodplain for a distance of approximately 200 feet. Where feasible, the vegetative cover was extended into the water for further stabilization. Restoration measures used included coir fascines, gravel access points, coir mattresses, dead brush layers, sand and gravel stabilizer, live brush mattresses, rock toes, temporary wood stakes, and coir webbing.

Project Location: Cook County

Subgrantee: Forest Preserve District of Cook County
536 North Harlem Avenue
River Forest, Illinois 60305
Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<th>Phosphorus (lbs/year)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>10,660 ft.</td>
<td>294</td>
<td>250</td>
<td>499</td>
</tr>
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</table>

Title: Senachwine Creek Nonpoint Source Control Project

Purpose: This project improved water quality through the treatment of uplands and floodplains in the Senachwine Creek watershed, and through the implementation of a watershed educational/training program. Cost-share assistance was provided to watershed landowners to implement a variety of upland and floodplain best management practices (BMPs). Upland BMPs included 46,725 feet of terraces, 24.2 acres of waterways, 9 sediment basins, and three grade stabilization structures. Floodplain BMPs included eight ponds and six streambank stabilization projects which addressed 3,900 linear feet.

Project Location: Peoria County

Subgrantee: Illinois River Soil Conservation Task Force
2412 West Nebraska Avenue
Peoria, Illinois 61604

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<th>Amount</th>
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<th>Nitrogen (lbs/year)</th>
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<tbody>
<tr>
<td>600</td>
<td>Terrace</td>
<td>46,725 ft.</td>
<td>5,007</td>
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<td>?</td>
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<tr>
<td>412</td>
<td>Grassed Waterway</td>
<td>24.2 ac.</td>
<td>1,689</td>
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<tr>
<td>350</td>
<td>Sediment Basin</td>
<td>9 (no.)</td>
<td>1,882</td>
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<tr>
<td>410</td>
<td>Grade Stabilization Structure</td>
<td>3 (no.)</td>
<td>265</td>
<td>?</td>
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<tr>
<td>378</td>
<td>Pond</td>
<td>8 (no.)</td>
<td>1,564</td>
<td>?</td>
<td>?</td>
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<tr>
<td>580</td>
<td>Streambank/Shoreline Stabilization</td>
<td>3,900</td>
<td>2,400</td>
<td>2,100</td>
<td>4,350</td>
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</table>

Title: Mauvaise Terre Creek Project

Purpose: The project informed and educated the public, specifically at-risk youth, about nonpoint source pollution, how it is impairing Mauvaise Terre Creek, and what can
be done to prevent this pollution. The youth involved in this project removed debris from the creek that is affecting flow and water quality and document the stretches of the creek that are experiencing streambank erosion for future restoration. An environmental education curriculum was developed for the students and the students made presentations on the project. The youth also worked with the Illinois Rivers Project through Jacksonville High School to benefit from water quality education and to assist in providing data for the Illinois Rivers Project.

Project Location: Morgan County

Subgrantee: Youth Attention Center
527 South Main Street
Jacksonville, Illinois 62650

BMP Implementation Summary:

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<th>Amount</th>
<th>Estimated Load Reduction</th>
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<tbody>
<tr>
<td>326</td>
<td>Clearing &amp; Snagging</td>
<td>400 ft.</td>
<td>Sediment: 3 tons/year, Phosphorus: 3 lbs/year, Nitrogen: 6 lbs/year</td>
</tr>
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</table>

94-4(319)CT

Title: Perry County Demonstration/Education Plots

Purpose: This project provided information and technology transfer regarding conservation tillage methods and their effects on water quality. This was accomplished by developing field demonstration plots from which surface and ground water samples were analyzed to determine various best management practices’ effectiveness in reducing nonpoint source pollution to protect water quality in the Blacksop Creek (ILNEB01) watershed.

Project Location: Perry County

Subgrantee: Perry County Soil & Water Conservation Districts
Post Office Box 146
Pinckneyville, Illinois 62274

94-5(319)ST

Title: Macoupin County Public Water Supply Watershed Protection/Education Project

Purpose: This project addressed specific water quality issues, primarily siltation and atrazine as nonpoint source pollutants in public water supply lakes. This was done by building 18 water and sediment control basins and three wetlands in three different watersheds; establishing comparison plots of different types of vegetation in those basins; comparing the results; and using the summary of findings to educate the public about watershed management.

Project Location: Macoupin County
Subgrantee: Macoupin County Soil & Water Conservation District
300 Carlinville Plaza
Carlinville, Illinois 62626

BMP Implementation Summary:

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<td></td>
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<td>Sediment (tons/year)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nitrogen (lbs/year)</td>
</tr>
<tr>
<td>638</td>
<td>Water &amp; Sediment Control Structure</td>
<td>18 (no.)</td>
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<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>5.3 ac.</td>
<td>?</td>
</tr>
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</table>

94-6(319)JC

Title: City of Lockport Abandoned Well Sealing Project

Purpose: Service at the city of Lockport’s public water supply well no. 3 was discontinued in 1970 due to lack of production and high sulfur content. However, the abandoned well was not properly sealed, making it a point where potential contamination could enter the aquifer. The city of Lockport had the well properly sealed.

Project Location: Will County

Subgrantee: City of Lockport
222 East Ninth Street, Suite 4
Lockport, Illinois 60441-3497

BMP Implementation Summary:

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<tr>
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<td></td>
<td></td>
<td>Sediment (tons/year)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Nitrogen (lbs/year)</td>
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<tr>
<td>005</td>
<td>Well Sealing</td>
<td>1 (no.)</td>
<td>?</td>
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</table>

94-8(319)JC

Title: Southern Illinois No-Till Rental & Demonstration Project (Johnson Co.)

Purpose: This project allowed the rental of no-till equipment to farmers in Johnson County at a reduced cost per acre charge. Because the economic conditions experienced in the agricultural communities in this part of the state, and the average farm size in the county being significantly less than the state average, many farmers need hands-on experience before they will be convinced to purchase the expensive equipment on their own. This project also demonstrated to the farmer ways of managing no-till so equal or better results compared to conventional tillage can be attained.

Project Location: Johnson County

Subgrantee: Johnson County Soil & Water Conservation District
209 North 4th
Vienna, Illinois 62995
BMP Implementation Summary:

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<tr>
<td>329</td>
<td>Conservation Tillage</td>
<td>2,784</td>
<td>23,633.9</td>
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</table>

Title: Larkdale Lagoons Shoreline Stabilization Project

Purpose: Local government staff was trained in the placement of vegetative shoreline stabilization in the Larkdale Lagoons and a connecting ditch to improve water quality performance. Approximately 700 feet of lagoon shoreline and the 700 feet of connecting ditch were planted in wetland vegetation to reduce erosion and improve nutrient removal. The water quality performance of Larkdale Lagoons was enhanced by significantly reducing shoreline and channel erosion and by adding wetland vegetation, which will substantially increase suspended and soluble pollutant removal.

Project Location: Lake County

Subgrantee: Village of Wauconda
101 North main Street
Wauconda, Illinois 60084-0785

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,400 ft.</td>
<td>9 8 16</td>
</tr>
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</table>

Title: Milne Creek Streambank Stabilization Project

Purpose: This project stabilized 1,125 feet of streambanks along Milne Creek using bioengineering techniques (vegetation, coconut roll, and A-Jack structures).

Project Location: Will County

Subgrantee: City of Lockport
222 East Ninth Street, Suite 4
Lockport, Illinois 60441-3497
BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
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<tbody>
<tr>
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<td>Streambank/Shoreline Protection</td>
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<td>99</td>
<td>84</td>
<td>169</td>
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</table>

Title: Grass Lake Nonpoint Source Pollution Control Project

Purpose: This project determined and implemented cost-effective programs to reduce nonpoint source pollution in northern Grass Lake (ILRTQ) due to boat traffic and other recreational uses. Both structural and non-structural methods were implemented and evaluated, including barrier methods to restrict the movement of resuspended sediment, creation of wind breaks, water use regulation (i.e., no-wake zones and no-motor areas), and redirection of traffic routes to deeper locations. Education of boaters of the impact of their activities on resuspension of sediments and of proposed management methods was also an important part of this project.

Project Location: Counties of Lake and McHenry

Subgrantee: Chain-O-Lakes Fox River Waterway Management Agency
64 East Grand, Post Office Box 541
Fox Lake, Illinois 60020

Title: DeKalb County Streambank and No-Till Program

Purpose: This project protected Lake Holiday from sedimentation and other sources of nonpoint source pollution attributed to agricultural runoff. This was accompanied by increasing the number of acres in the watershed that are farmed by no-till. A no-till drill was supplied to farmers at a $4 per acre charge to encourage the practice and was used on 650 acres. Rip rap was installed to stabilize 300 feet of streambank on Samonauk Creek (ILDDB01).

Project Location: DeKalb County

Subgrantee: DeKalb County Soil & Water Conservation District
315 North Sixth Street
Dekalb, Illinois 60115

Project Reports and Other Informational Materials:

Title: Norton Creek Urban Stream Maintenance/Restoration Program

Purpose: Norton Creek became degraded due to changes in watershed hydrology, channel modifications, incursion of non-native woody vegetation, and lack of maintenance. Periodic failure of septic systems were reported due to debris blockages, which back up waters, further degrading water quality. To reduce debris related backups and streambank erosion, and to improve habitat and pollutant filtering mechanisms in Norton Creek, stream maintenance and restoration activities were implemented. These activities included the removal and disposal of nuisance vegetation adjacent to the stream such as overhanging trees, limbs, and shrubs, as well as other debris. These techniques were applied to approximately 7,000 feet of stream.

Project Location: Kane County

Subgrantee: Village of Wayne
5N430 Railroad Street
Post Office Box 532
Wayne, Illinois 60184

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
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<tbody>
<tr>
<td>329</td>
<td>Conservation Tillage</td>
<td>650 ac.</td>
<td>5,500</td>
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<td>?</td>
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<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>300 ft.</td>
<td>50</td>
<td>42</td>
<td>84</td>
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</table>

Title: Greenleaf Creek Streambank Stabilization Project

Purpose: This project demonstrated the ability to stabilize streambanks within an urbanized watershed by implementing an aggressive vegetation management program to remove undesirable non-native plant species on 1,100 feet of streambank, reintroduce native wetland/streamside species on 1,100 feet of streambank, and stabilization of 600 feet of streambank with A-Jacks. An educational opportunity to adjacent property owners was also provided.
Project Location: Lake County

Subgrantee: City of Park City
3420 Kehm Boulevard
Park City, Illinois 60085

Project Reports and Other Informational Materials:

“Greenleaf Creek Streambank Stabilization Project.” (videotape) 1996. RSK Consultants, Inc.

“Greenleaf Creek Streambank Stabilization Project.” 1996. RSK Consultants, Inc.

BMP Implementation Summary:

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<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,700 ft.</td>
<td>22</td>
<td>19</td>
<td>38</td>
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</table>

Title: Ninemile Creek Watershed Sinkhole Stabilization Project

Purpose: This project demonstrated and provided information/education to residents and landowners in the Ninemile Creek watershed as to cost-effective practices and methods to improve water quality. Ten (10) sinkholes were stabilized with appropriate land treatment practices applied to the surrounding land.

Project Location: Randolph County

Subgrantee: Randolph County Soil & Water Conservation District
313 West Belmont
Sparta, Illinois 62286

BMP Implementation Summary:

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<tbody>
<tr>
<td>008</td>
<td>Sinkhole Stabilization</td>
<td>10 (no.)</td>
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</table>

Title: Ground Water Pollution Prevention Project

Purpose: This project included nonpoint source pollution prevention education for both the urban and rural communities including three field days and/or training workshops for landowners, well sealing contractors, public officials, Soil Conservation Service, Cooperative Extension Service, and soil and water conservation district (SWCD) personnel. The field days and workshops demonstrated the correct procedures to seal abandoned wells and promoted a variety of best management practices (BMPs) such as setback zones and pesticide and nutrient management practices to be
implemented by landowners, business, and municipalities, etc. for the protection of
ground water. County and municipal officials within Iroquois County were contacted
concerning ground water protection and assistance was provided to those who plan
to implement pollution prevention practices. Program information was also provided
to surrounding SWCDs and other similar organizations. In addition to the
educational portion, a cost-share program was administered so that a total of 58
abandoned wells were properly sealed.

Project Location:   Iroquois County

Subgrantee: Iroquois County Soil & Water Conservation District
             205 West Oak Street
             Watseka, Illinois 60970

BMP Implementation Summary:

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<th>Amount (no.)</th>
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<tbody>
<tr>
<td>005</td>
<td>Well Sealing</td>
<td>58</td>
<td>?</td>
</tr>
</tbody>
</table>

94-18(319)CD

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project will continue the identification of sources of sediment and the efficiency
of sedimentation control practices on the tributary watershed of Lake Pittsfield. This
project was previously funded under Section 319 in federal fiscal years 1992 and
1993. The project is a cooperative Section 319/314 effort for lake restoration and
water quality improvement.

Project Location:   Pike County

Subgrantee: Illinois State Water Survey
             Post Office Box 697
             Peoria, Illinois 61652-0697

94-19(319)ST

Title: Waukegan River National Monitoring Strategy

Purpose: This project utilized the national monitoring program to demonstrate the
effectiveness of biotechnical stream stabilization techniques implemented on the
Waukegan River. The urban fisheries and stream habitat were surveyed before
implementation of biotechnical stream stabilization. Under the national monitoring
program, stream fishery and instream habitat were surveyed to provide post
implementation data. The monitoring strategy included macroinvertebrate sampling,
physical habitat monitoring, and fisheries monitoring during the spring, summer, and
fall cycles of the project period. All monitoring and associated data were entered
into USEPA’s Nonpoint Source Management System (NPSMS) and STORET
A color brochure was developed which described 1) the biotechnical stream stabilization techniques implemented on the Waukegan River, 2) the monitoring program, and 3) the physical and biological enhancements achieved on the Waukegan River. A report was prepared summarizing the monitoring data and the findings related to the effectiveness of implemented biotechnical stream stabilization techniques, including but not limited to improvements in habitat and bank stabilization.

**Project Location:** Lake County

**Subgrantee:** Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

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**Title:** Stream Restoration Manual

**Purpose:** A manual was developed which provides detailed instructions on the application of stream restoration techniques (both biotechnical and streambed controls) in a watershed context. The instructional manual is divided into three sections: 1) introduction to geomorphic assessments of watersheds and stream geometry, 2) application of biotechnical techniques within a watershed context, and 3) application of streambed grade controls to enhance stable pool and riffle habitat. The instructional manual is supplemented with video footage of the described application and geomorphic setting.

**Project Location:** Statewide

**Subgrantee:** Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

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**Project Reports and Other Informational Materials:**


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**Title:** National Monitoring Conference

**Purpose:** This project brought together a variety of entities involved in the assessment of water quality in the United States and Canada. The conference focused on those groups and individuals with an interest in national monitoring projects and those with the knowledge of water quality assessment in order to create a unified, organized effort to accomplish water quality improvement. The conference also highlighted the use of national monitoring criteria to provide comparable results and to improve the opportunity for water quality data comparisons between states.
Project Location: Statewide

94-22(319)CT

Title: Nonpoint Source Pollution Awareness Through Advertisements

Purpose: This project heightened the awareness of urban nonpoint source pollution (specifically stormwater runoff) through pollution prevention advertisements (messages, graphics, and photographs) on billboards in Springfield, Illinois. The advertisements will addressed the different types of pollutants associated with urban runoff and highlighted the concept of pollution prevention through watershed management. One billboard design was featured in Springfield from July through August, 1996. A second new design was used from September through October, 1996.

Project Location: Sangamon County

Subgrantee: Not Applicable

94-24(319)CT

Title: GIS Technology Support for the Targeted Watershed Approach

Purpose: This project created the coverages and programs necessary for conducting the Targeted Watershed Approach (TWA) in a geographic information system (GIS) environment and trained Illinois EPA staff in GIS techniques and applications. The TWA is a method of prioritizing Illinois EPA’s Bureau of Water program activities within targeted watersheds where the greatest environmental benefit can be realized. The Support Technology for Environmental Water & Agricultural Resource Decisions (STEWARD) and Agricultural Nonpoint Source Pollution (AGNPS) model were applied on the Lake Pittsfield watershed to 1) identify recommended best management practices (BMPs) that should be applied; 2) quantify pollutants loads under conditions before and after implementation of Section 319 BMPs; 3) evaluate the effectiveness of applied BMPs; and 4) determine the functional value of the models for these purposes.

Project Location: Statewide

Subgrantee: Illinois State Water Survey
2204 Griffith Drive
Champaign, Illinois 61820-7495

Project Reports and Other Informational Materials:


94-25(319)SR

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**Title:** Southern Illinois No-Till Rental and Demonstration Project (Union Co.)

**Purpose:** This project allowed the rental of no-till equipment to farmers in Union County at a reduced cost per acre charge. Because the economic conditions experienced in the agricultural communities in this part of the state, and the average farm size in the county being significantly less than the state average, many farmers need hands-on experience before they will be convinced to purchase the expensive equipment on their own. This project also demonstrated to the farmer ways of managing no-till so equal or better results compared to conventional tillage can be attained.

**Project Location:** Union County

**Subgrantee:** Union County Soil & Water Conservation District
R.R. #2, Box 305C
Anna, Illinois 62906

**BMP Implementation Summary:**

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<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
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</thead>
<tbody>
<tr>
<td>329</td>
<td>Conservation Tillage</td>
<td>5,038.5 ac.</td>
<td>?</td>
<td>49,512.9</td>
<td>?</td>
</tr>
</tbody>
</table>

94-26(319)JC

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**Title:** NPS Information and Education Conference

**Purpose:** The Illinois EPA held a conference during the fall of 1996 focused on the techniques utilized to inform and educate the public about nonpoint source pollution prevention. Federal, state, local, and volunteer groups discussed their efforts and students participating in environmental programs made presentations on their efforts. A site visit was made to the Brookfield Zoo and an optional trip to the Shedd Aquarium (two information/education projects funded in part by Section 319).

**Project Location:** Cook County

**Subgrantee:** Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

94-29(319)CT
Title: Joliet Arsenal Riparian Restoration Project

Purpose: This project provided geographic information system data, maps, and model analysis for the creation and restoration of wetlands and protection of the wetland systems within the Joliet Arsenal.

Project Location: Will County

Subgrantee: Illinois Department of Natural Resources
524 South Second
Springfield, Illinois 62701-1787

Title: Biotic Assessment of Watershed Management Practices Methodology

Purpose: The Illinois EPA will assess and revise current Index of biotic Integrity (IBI) metrics, including incorporation of alternative measures of stream size. Revision of the effort metric shall be assessed, including modifications to account for low fish abundance. After revision of the effort metric, an IBI user manual will be developed. Recommendations and protocols regarding use of the IBI as a watershed assessment tool will also be developed. Finally, various regionalization schemes for fisheries communities will be verified and recommended.

Project Location: Statewide

Subgrantee: Center for Aquatic Ecology
Illinois Natural History Survey
607 E. Peabody Drive
Champaign, Illinois 61820

Title: Blue Creek Stream Restoration Project

Purpose: Blue Creek, a tributary of Lake Pittsfield (ILRDP), was experiencing streambed incision and mass wasting of oversteepened banks, producing for increased sediment yield. Along the stream channel, large ravines had eroded around concrete drop structures and were downcutting upstream through grassed waterways into row crop fields, further increasing sediment yield. To address these problems, the stream channel was stabilized with 12 low rock wiers, which were spaced as natural riffles along 1,500 feet of stream. Two of the weirs were constructed to serve as low water stream crossings for farm equipment. Eroding banks were stabilized with vegetation. In some weir locations, riprap was extended downstream to protect the streambed and bank on meander bends from the high energy flows generated on the weir backslope. Two ravine erosion sites were
stabilized with riprap, soils, and grasses where runoff had eroded soils from concrete drop structures.

**Project Location:** Pike County

**Subgrantee:** Illinois State Water Survey  
Post Office Box 697  
Peoria, Illinois 61652-0697

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sediment (tons/year)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Phosphorus (lbs/year)</td>
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<tr>
<td></td>
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<td></td>
<td>Nitrogen (lbs/year)</td>
</tr>
<tr>
<td>584</td>
<td>Stream Channel Stabilization</td>
<td>1,500 ft.</td>
<td>99</td>
</tr>
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<td>94-32(319)ST</td>
<td></td>
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<td>84</td>
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<tr>
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<td></td>
<td>168</td>
</tr>
</tbody>
</table>

**Title:** Macoupin County Public Water Supply Watershed Project

**Purpose:** This project addressed water quality problems, primarily siltation and atrazine, of two public water supply lakes. Thirteen (13) water and sediment control basins were constructed in the Otter Lake (ILRDF) watershed.

**Project Location:** Macoupin County

**Subgrantee:** Macoupin County Soil & Water Conservation District  
300 Carlinville Plaza  
Carlinville, Illinois 62626

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
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<tbody>
<tr>
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<td>Sediment (tons/year)</td>
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<td></td>
<td></td>
<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nitrogen (lbs/year)</td>
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<tr>
<td>638</td>
<td>Water &amp; Sediment Control Basin</td>
<td>13 (no.)</td>
<td>442</td>
</tr>
<tr>
<td>94-34(319)JC</td>
<td></td>
<td></td>
<td>?</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>?</td>
</tr>
</tbody>
</table>

**Title:** The North Branch Chicago River Project – 2

**Purpose:** With funding under Section 319 in federal fiscal year 1996, the Friends of the Chicago River and its project partners developed a model urban watershed
protection handbook that will assist urban resource managers and interested parties throughout the midwest in the protection, restoration, and maintenance of similar watersheds. The handbook was developed and field tested as part of the development of an actual watershed strategy and implementation effort for the North Branch of the Chicago River (ILHCC08). With supplemental funding under the FFY94 Section 319 grant, the friends of the Chicago River implemented additional best management practices to demonstrate techniques for the protection and restoration of water quality in the North Branch of the Chicago River. Funding was also used to print additional copies of the model urban watershed protection handbook.

**Project Location:** Counties of Lake & Cook

**Subgrantee:** Friends of the Chicago River  
407 S. Dearborn Street, Suite 1580  
Chicago, Illinois 60605

**Project Reports and Other Informational Materials:**


94-35(319)CD

**Title:** Salt Creek Streambank Stabilization Project

**Purpose:** This project reduced erosion and nonpoint source pollution through the stabilization of eroding streambanks along an approximately 2,735 foot segment of Salt Creek (ILGL09) located in Wood Dale, Illinois. Bioengineering techniques (i.e., geogrid, lunkers, A-jacks, fiber rolls, minor stream regrading, vegetation) were used. An educational stand was also installed at the site to explain the streambank stabilization practices and the importance of nonpoint source pollution control.

**Project Location:** DuPage County

**Subgrantee:** City of Wood Dale  
404 North Wood Dale Road  
Wood Dale, Illinois 60191

**Project Reports and Other Informational Materials:**

### BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>2,735 ft.</td>
<td>Sediment (tons/year)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>127</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>109</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nitrogen (lbs/year)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>216</td>
</tr>
</tbody>
</table>

94-36(319)SR

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**Title:** Nonpoint Source Pollution Book for Grades 3 through 5

**Purpose:** This project developed a “Magic School Bus” style book on nonpoint source pollution. The intended audience is youth in the 3rd through 5th grades. A teachers guide was also developed.

**Project Location:** Statewide

**Subgrantee:** The University of Illinois
801 South Wright Street
Champaign, Illinois 61820

**Project Reports and Other Informational Materials:**


94-37(319)BL
FFY 1995 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Mackinaw River Project

Purpose: This project assisted rural land and water managers in Illinois’ Mackinaw River (ILDK13) eco-shed in protecting and restoring aquatic and riparian life. The project demonstrates the viability of cooperative efforts to implement land and water management practices that are ecologically, economically, and socially compatible. The project implemented a replicable process for examining, prioritizing, and correcting water quality impairments resulting from changes in land use and hydrology, and increased nonpoint source pollution. The project illustrated innovative solutions to economic and social constraints to the adoption of best management practices. The project established a process for involving and empowering key stakeholders in eco-shed management.

Project Location: Counties of Mason, Tazewell, Woodford, Ford, McLean, and Livingston

Subgrantee: The Nature Conservancy, Central Illinois Field Office
416 Main Street, Suite 1112
Peoria, Illinois 61602

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>59 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>350</td>
<td>Sediment Basin</td>
<td>5 (no.)</td>
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<td>?</td>
<td>?</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>9,240 ft.</td>
<td>203</td>
<td>172</td>
<td>346</td>
</tr>
<tr>
<td>556</td>
<td>Planned Grazing System</td>
<td>40 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>410</td>
<td>Grade Stabilization Structure</td>
<td>3 (no.)</td>
<td>?</td>
<td>?</td>
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<tr>
<td>612</td>
<td>Tree Planting</td>
<td>12 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>614</td>
<td>Trough or Tank</td>
<td>1 (no.)</td>
<td>?</td>
<td>?</td>
<td>?</td>
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<tr>
<td>512</td>
<td>Pasture &amp; Hayland Planting</td>
<td>14 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
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<tr>
<td>510</td>
<td>Pasture &amp; Hayland Management</td>
<td>416 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
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<tr>
<td>644</td>
<td>Wildlife Wetland Habitat Management</td>
<td>4 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>666</td>
<td>Woodland Improvement</td>
<td>242 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>314</td>
<td>Brush Management</td>
<td>6 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>870</td>
<td>Level Spreader</td>
<td>3 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>472</td>
<td>Livestock Exclusion</td>
<td>10 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>342</td>
<td>Critical Area Planting</td>
<td>3 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

95-1(319)CD
Title: Lake Forest Wetland Demonstration Project

Purpose: This project recreated a 25 acre wetland by restoring the natural hydrology and vegetative cover of the project site, primarily floodplain. Drainage tiles and minor water control structures were disabled to allow for the creation of a wetlands complex which intercepts runoff and benefits water quality. The project diverted stormwater runoff from the upstream sources into a wetlands system where it receives secondary biological treatment prior to discharge into the Middle Fork of the North Branch of the Chicago River (ILHCCC04). The project also involved the implementation of a public education program.

Project Location: Lake County

Subgrantee: Lake County Forest Preserve District
2000 Milwaukee Avenue
Libertyville, Illinois 60048

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>25 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>95-2(319)ME</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Title: Urban Erosion Control Project

Purpose: This project was implemented in an agricultural area undergoing phased urban development in the Lake Springfield watershed. The project demonstrated the effectiveness of nonpoint source pollution control practices implemented and maintained during the construction of utilities and houses. Control sites were used for comparison purposes. The effectiveness of pollution control techniques were documented through videotape and a computer simulation model of runoff from the project sites. Project results were used for preparing a draft construction erosion control ordinance in Sangamon County and for strengthening an existing city of Springfield Land Subdivision Ordinance.

Project Location: Sangamon County

Subgrantee: Sangamon County Soil & Water Conservation District
40 Adloff Lane, Suite 4
Springfield, Illinois 62703
Title: Chick Evans Golf Course Stream Protection Project

Purpose: This project created a filter strip along the North Branch of the Chicago River (ILHCC08) in the Chick Evans Golf Course to reduce nonpoint source pollution such as sediment, fertilizers, and other chemicals through the establishment of land treatment measures that improved aesthetic conditions, enhanced environmental quality, and inhibit flood damage. A-jacks, lunkers, and vegetation were established along the river to stabilize 827 feet of streambanks and reduce the amount of sediment released into the water and filter runoff from the golf course.

Project Location: Cook County

Subgrantee: Forest Preserve District of Cook County
536 North Harlem Avenue
River Forest, Illinois 60305

BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Stabilization</td>
<td>827 ft.</td>
<td>Sediment (tons/year) 34, Phosphorus (lbs/year) 29, Nitrogen (lbs/year) 58</td>
</tr>
</tbody>
</table>

Title: Illinois Farm-A-Syst

Purpose: This project was Phase 2 of the Farm-A-Syst program established by the Illinois Department of Agriculture. Phase 2 further developed and enhanced the efforts and developments of Phase 1 of this effort by providing additional training, the development of Illinois Farm-A-Syst Plus, the development of Illinois Home-A-Syst, and by providing the availability of water sampling. Phase 2 was the next step in the development of a Farm-A-Syst program which was comprehensive and provided universal statewide coverage.

Project Location: Statewide
**Title:** 60 Ways Farmers Can Protect Surface Water

**Purpose:** A guidebook entitled 60 Ways Farmers Can Protect Surface Water was developed, published, and distributed. The book contains information on techniques to control soil erosion and livestock waste, methods for reducing chemical use, and application of best management practices that prevent surface water contamination.

**Project Location:** Statewide

**Subgrantee:** University of Illinois - Cooperative Extension Service
65 Mumford Hall, 1301 N. Gregory Drive
Urbana, Illinois 61801

**Project Reports and Other Informational Materials:**


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**Title:** Phase 1 Implementation of the Flint Creek Watershed Management Plan

**Purpose:** This project initiated the implementation of a comprehensive nonpoint source pollution control strategy developed with Clean Water Act Section 104(b)(3) funding. Recommendations of the Flint Creek (ILDTZS01) watershed management plan were executed through the coordinated implementation of best management practices for urban runoff and stream and watershed management. The overall project included streambank (6,656 feet) and lake shoreline (250 feet) stabilization/restoration, the installation of sand filters, flow control structures, wetland restoration, public education, and implementation of the Lake County Watershed Development Ordinance in the Flint Creek watershed.

**Project Location:** Lake County

**Subgrantee:** Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097
Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment Load Reduction (tons/year)</th>
<th>Phosphorus Load Reduction (lbs/year)</th>
<th>Nitrogen Load Reduction (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>6,906</td>
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<td>108</td>
<td>217</td>
</tr>
<tr>
<td>845</td>
<td>Infiltration Trench</td>
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<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>840</td>
<td>Grassed Lined Channel</td>
<td>0.33 ac.</td>
<td>?</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>0.63 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield. This project was previously funded under Section 319 in federal fiscal years 1992, 1993, and 1994. The project is a cooperative Section 319/314 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:


Title: Waukegan River National Monitoring Strategy (Phase 2)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697
Project Reports and Other Informational Materials:


Title: Southwestern Illinois Karst Project

Purpose: This project was located within Illinois EPA’s Southern Illinois Ground Water Protection Region. The three counties involved have more than 220,800 acres of karst topography. The project educated residents in the karst areas about how their activities affect the quality of the ground water, what nonpoint source pollution is, and the best management practices needed to prevent it. In addition, technical studies were conducted to produce up-to-date assessments on the ground water quality of the area, identify priority contaminants, and their pathways.

Project Location: Monroe County

Subgrantee: Monroe-Randolph Bi-County Health Department
901 Illinois Avenue, Suite A
Waterloo, Illinois 62298

Project Reports and Other Informational Materials:


Title: Brookfield Zoo NPS Pollution Awareness Exhibit (Wetlands Conservation Exhibit)

Purpose: A Wetlands Conservation Exhibit was designed and constructed to enhance the public’s understanding of the value and function of swamps, marshes, and other wetlands. The exhibit highlighted the importance of wetlands in improving water quality, supporting wildlife, and controlling floods. Impacts on water quality and wetlands, such as nonpoint source pollution, draining and filling, introduction of exotic species, and unsustainable use of natural resources are presented. The qualities indicative of a healthy wetland environment are displayed and described.
The ways in which human activities impact wetland ecosystems, including nonpoint source pollution, are demonstrated in a variety of means throughout the exhibit. The actions zoo visitors can take to minimize negative impacts on wetlands are also displayed, such as minimizing the use of fertilizers and pesticides, helping to enforce existing wetland protection laws, keeping harmful materials out of storm sewers, and supporting wetlands protection and enhancement efforts.

**Project Location:** Cook County

**Subgrantee:** Chicago Zoological Society
Brookfield Zoo
3300 Golf Road
Brookfield, Illinois 60513

**Project Reports and Other Informational Materials:**


95-12(319)RM

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**Title:** Shedd Aquarium NPS Pollution Awareness Exhibit (WaterWise)

**Purpose:** The WaterWise exhibit was designed and constructed to explain the various forms of nonpoint source pollution, their impacts on the environment, methods for minimizing those impacts, and the importance of water quality protection. The information was presented in a fun and engaging manner to stimulate the public's willingness to participate in the practical solutions to nonpoint source pollution highlighted by the exhibit. The exhibit was located in the John G. Shedd Aquarium’s main foyer during August 1995. Each Thursday evening in August 1995, the exhibit was part of a special “after hours” event. Illinois EPA employees and other volunteers staffed the exhibit, providing the public an opportunity to talk with water quality experts. After August, the exhibit was relocated to an alternate venue. WaterWise was coordinated with, and the funding used to enhance, the Nonpoint Source Pollution and Stream Ecology exhibit initiated with Federal fiscal year 1991 Section 319 funds.

**Project Location:** Cook County

**Subgrantee:** John G. Shedd Aquarium
1200 South Lake Shore Drive
Chicago, Illinois 60605

95-13(319)SR

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**Title:** Lincoln Memorial Garden NPS Pollution Control Education Project

**Purpose:** Demonstrative best management practices (BMPs) for nonpoint source pollution control were implemented on Lincoln Memorial Garden property located within the
Lake Springfield watershed. BMPs included upland watershed treatment, streambank stabilization, shoreline protection, critical area vegetative management (prairie grasses and forbes and trees), reforestation, and wetland restoration. The project also provided an excellent opportunity for “hand-on” application workshops for a variety of ages. In addition to the BMPs, a nonpoint source pollution control interpretive exhibit was located at the Nature Center on the Garden property and information/education materials were developed and distributed.

**Project Location:** Sangamon County

**Subgrantee:** Lincoln Memorial Garden  
2301 East Lake Drive  
Springfield, Illinois 62707

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>3.0 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>356</td>
<td>Dike</td>
<td>100 ft.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>410</td>
<td>Grade Stabilization Structure</td>
<td>3 (no.)</td>
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<td>?</td>
<td>?</td>
</tr>
<tr>
<td>584</td>
<td>Stream Channel Stabilization</td>
<td>1,100 ft.</td>
<td>72</td>
<td>61</td>
<td>124</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>2,400 ft.</td>
<td>170</td>
<td>144</td>
<td>291</td>
</tr>
<tr>
<td>393</td>
<td>Filter Strip</td>
<td>?</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

**Title:** Chicagoland Environmental Network

**Purpose:** The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling. The CEN also developed a long range plan identifying its 10 year mission and strategy, including future programs and functions, resource needs, goals and objectives, etc.

**Project Location:** Cook County

**Subgrantee:** Chicago Zoological Society  
3300 South Golf Road  
Brookfield, Illinois 60513
Title: Indian Lake Interpretation

Purpose: Through a cooperative effort with the Chicago Zoological Society (Brookfield Zoo), the Illinois EPA created an interpretive program designed to educate visitors about the benefits of healthy lake ecosystems, the physical and biological characteristics of functioning lakes including the flora and fauna of such habitats in Illinois, the positive and negative impacts of people on lakes, and how visitors can help protect lake water quality. This interpretive program is located around Indian Lake (ILWGY) at the Brookfield Zoo.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

Project Reports and Other Informational Materials:


Title: Know Your Watershed Program

Purpose: The Illinois EPA assisted in the Conservation Technology Information Center’s efforts to host one statewide Watershed Partnership Workshop and three regional Watershed Facilitator Workshops in Illinois. The workshops were targeted to representatives from municipalities, state agencies, state level associations, commodity groups, private industry, non-governmental organizations, and other pertinent groups working with watershed management. The focus of the workshops was on what each organization can provide toward the management of watersheds in Illinois.

Project Location: Statewide

Subgrantee: Conservation Technology Information Center
1220 Potter Drive, Room 170
West Lafayette, Indiana 47906-1383

Project Reports and Other Informational Materials:

Title: Illinois River Watershed Display

Purpose: An Illinois River watershed display and brochure was designed to enhance the public’s awareness of the watershed, water quality of the watershed, nonpoint source pollution and its impact on the Illinois River watershed, efforts to improve water quality in the watershed, tips on how the public can prevent nonpoint source pollution in the watershed, and history of the Illinois River watershed. The display will be placed on exhibition at various locations, including at the Clean Water Celebration in March 1999 at the Peoria Civic Center.

Project Location: Peoria County

Subgrantee: Powell Press Board of Managers
942 N. E. Glen Oak
Peoria, Illinois 61603

Project Reports and Other Informational Materials:

“Our River is a Reflection of Our Community.” (Brochure) 1999. The Peoria Historical Society.

95-19(319)SR

Title: National Urban Water Quality Retrofit Conference

Purpose: Financial and technical assistance was provided by the Illinois EPA to help host the National Urban Water Quality Retrofit Conference. The conference highlighted innovative technologies and approaches for the improvement of water quality in urban areas.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

95-20(319)SR
FFY 1996 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: NPS Control in a Priority Ground Water Protection Planning Region

Purpose: The goal of this project was to reduce the leaching potential of certain pesticides within community water supplies (CWS) well recharge areas, given soil characteristics and implementation of selected agricultural best management practices (BMPs). The three CWSs chosen were Edwardsville, Roxana, and Troy all located in the Southern Groundwater Protection Planning Region. Landowners employed BMPs on 750 out of 1,000 acres within the recharge areas.

Project Location: Madison County

Subgrantee: Madison County Soil & Water Conservation District
7205 Marine Road, P.O. Box 482
Edwardsville, Illinois 62025

Title: North Branch Chicago River Watershed Project

Purpose: A model urban watershed protection handbook was developed to assist urban resource managers and interested parties throughout the Midwest in the protection, restoration, and maintenance of similar watersheds. The handbook was developed and field tested as part of the development of an actual watershed management plan and implementation effort for the North Branch of the Chicago River (ILHCC08). The project promoted partnerships that advocate and implement watershed planning and the implementation of best management practices.

Project Location: Cook County

Subgrantee: Friends of the Chicago River
407 S. Dearborn Street, Suite 1580
Chicago, Illinois 60605

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
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</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>4,700 ft.</td>
<td>27.7</td>
<td>22</td>
<td>42</td>
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<tr>
<td>865</td>
<td>Land Grading</td>
<td>1.8 ac.</td>
<td>5.7</td>
<td>5</td>
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<tr>
<td>880</td>
<td>Permanent Seeding</td>
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<td>9</td>
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<tr>
<td>800</td>
<td>Urban Stormwater Wetland</td>
<td>1 (no.)</td>
<td>?</td>
<td>11</td>
<td>45</td>
</tr>
</tbody>
</table>
Title: Indian Lake Wetlands Educational Interpretation Project

Purpose: The Illinois EPA expanded its nonpoint source pollution control information/education program through a cooperative effort with the Chicago Zoological Society (Brookfield Zoo). A wetland adjacent to the Zoo’s Indian Lake (ILWGZY) was designed to help visitors experience a functioning wetland system in northeastern Illinois. An educational interpretive program was developed for the wetland to highlight both the positive and negative impacts people can have on the environment, with an emphasis on helping visitors learn about ways they can help the environment. A boardwalk was constructed through the wetland for visitors to safely travel through the wetland without disrupting the natural functions. Visitors have the opportunity to perform hands-on tests to see how the wetland improves water quality. Signage and interactive devices along the boardwalk help visitors understand the importance of clean water. A self-guided trail tells the wetland story without detracting from the surrounding natural scene.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>1.5 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

Title: Expansion of the Water Works Lab

Purpose: A Water Lab exhibit was constructed at the Chicago Academy of Sciences’ new Nature Museum to present key concepts of water related sciences to help people examine, understand, and affect environmental issues. The Water Lab is a “hands-on/minds-on” exhibit and a working laboratory/classroom. A large model of the Chicago River provides explanations of how the river works, and what kinds of plants and animals live in this environment. The model explains the concept of watersheds and that what we do on the land impacts the quality of our water. The history of how the river has changed is described, as are the different types of uses and ecosystems of the river and Lake Michigan. Interactive devises teach visitors about urban nonpoint source pollution and how such pollution can be reduced. The loss,
function, and benefits of wetlands are explained. The exhibit includes aquarium tanks stocked with aquatic animals, including species both exotic and native to the Chicago River. A separate stream table allows visitors to make their own river and learn first hand how water shapes the land while exploring issues related to erosion and stream hydrology. A water quality testing lab allows visitors to analyze random water samples and make water management decisions based on the test results. Visitors can test for pH, chloride, and dissolved oxygen. Interactive computer stations allow visitors to explore various software and databases concerning water quality and related environmental issues.

Project Location: Cook County

Subgrantee: Chicago Academy of Sciences
2060 North Clark Street
Chicago, Illinois 60614

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, and 1995. The project was a cooperative Section 319/314 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Title: Waukegan River National Monitoring Strategy (Phase 3)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in Federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697
Title: Northeastern Illinois Community Assistance Office

Purpose: This project provided training to Natural Resource Conservation Service regional staff on water quality regulations and technical issues. Furthermore, the project encouraged the provision of nonpoint source pollution control related technical assistance to appropriate local agencies and organizations in northeastern Illinois. The Natural Resources Conservation Service’s Northeastern Illinois Community Assistance Office was established to serve the six county northeastern Illinois area. This office provided technical assistance to soil and water conservation districts, planning commissions, county departments, townships and municipalities in northeastern Illinois. In addition to direct technical assistance, the staff of this office provided information/education and training assistance. The major focus of the office was on erosion/sediment control, water quality, and natural resource management.

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

Subgrantee: USDA Natural Resource Conservation Service
1902 Fox Drive
Champaign, Illinois 61820

Title: National NPS Pollution Information/Education Conference Proceedings

Purpose: This project printed the presentations from the National NPS Pollution Information/Education Conference and distributed the proceedings to registered participants at the conference.

Project Location: Cook County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097

Project Reports and Other Informational Materials:


Title: Phase 2 Modeling on Lake Pittsfield

Purpose: This project provided additional funding to implement the modeling component of the GIS Technology Support for the Targeted Watershed Approach project funded under Section 319 in FFY94. The Support Technology for Environmental Water & Agricultural Resource Decisions (STEWARD) and Agricultural Nonpoint Source Pollution (AGNPS) model were applied on a sub-watershed of the Lake Pittsfield
(ILRDP) watershed. The purpose of the modeling was to 1) identify recommended best management practices (BMPs) that should be applied; 2) quantify pollutant loads under conditions before and after implementation of Section 319 BMPs; 3) evaluate the effectiveness of applied BMPs; and 4) determine the functional value of the models for these purposes.

**Project Location:** Pike County

**Subgrantee:** Illinois State Water Survey  
2204 Griffith Drive  
Champaign, Illinois 61820-7495

**Project Reports and Other Informational Materials:**


96-11(319)SR

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**Title:** Nonpoint Source Pollution Awareness Exhibit

**Purpose:** A new exhibit was designed, constructed, and placed on display at the Shedd Aquarium to enhance the public’s understanding of the value and function of water resources, nonpoint source pollution and its impact on water quality, and what can be done to protect Illinois’ water resources. The exhibit includes an aquarium stocked with live fish and plant species native to Illinois as well as graphics, copy, and interactive materials that present information on nonpoint source pollution and methods for reducing nonpoint source pollution. A music video for the song “Environment is Everything” was developed to illustrate the causes and sources of nonpoint source pollution, its impact on water quality, and the need to protect water resources. The music video was routinely played at the Shedd Aquarium for viewing by the public.

**Project Location:** Cook County

**Subgrantee:** John G. Shedd Aquarium  
1200 South Lake Shore Drive  
Chicago, Illinois 60605

**Project Reports and Other Informational Materials:**


96-10(319)SR
**Title:** Evaluation for the Children’s Zoo

**Purpose:** The purpose of this project was to evaluate Brookfield Zoo visitors’ awareness of the environmental impact of agriculture. The evaluation will affect planning for the expansion and renovation of the Children’s Zoo.

**Project Location:** Cook County

**Subgrantee:** Chicago Zoological Society  
Brookfield Zoo  
3300 Golf Road  
Brookfield, Illinois 60513

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**Title:** Cache River Reforestation Project

**Purpose:** This project accelerated the conversion of environmentally sensitive croplands to forest through the planting of native hardwood species. The project was targeted toward fields designated as “prior converted cropland” or “farmed wetland” with an emphasis on plantings in riparian corridors which provide streambank stability and/or connect fragmented habitats. Technical assistance was also provided for the improvement of already existing timber stands along with an information/education program.

**Project Location:** Counties of Union, Johnson, Alexander, Pulaski, and Massac

**Subgrantee:** Shawnee Resource Conservation and Development Area  
R.R. 6, Box 255  
1305 North Carbon  
Marion, Illinois 62959

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sediment</td>
<td>Phosphorus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(tons/year)</td>
<td>(lbs/year)</td>
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<tr>
<td>612</td>
<td>Tree Planting</td>
<td>2,601.8 ac.</td>
<td>72,000</td>
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</table>

96-13(319)JC
Title: Tri-County Erosion, Sedimentation, and Stormwater Management Program

Purpose: This project initiated the execution of the multi-county soil erosion and sedimentation control program implementation plan and ordinance prepared with funding under a FFY90 Section 319 grant. Funding was used to finance staff to review local erosion and sedimentation control plans, perform inspections and other enforcement procedures, carry-out education and training functions, maintain control standards and technical guides, ensure intergovernmental cooperation, and evaluate program effectiveness.

Project Location: Counties of Peoria, Woodford, and Tazewell

Subgrantee: Tri-County Regional Planning Commission
100 North Main Street, Suite 301
East Peoria, Illinois 61611-2533

Project Reports and Other Informational Materials:


Title: North Fork Embarras Watershed Project

Purpose: This project protected and improved the water quality of the North Fork Embarras River (ILBEF05) watershed by reducing nonpoint source pollutants. A comprehensive sediment and nutrient reduction project was implemented that included watershed protection, information, and education programs. Upland BMPs installed included 33 grassed waterways, 25 sediment and nutrient retention structures, 3 critical area seedings, 3 water and sediment control basins, 2 terrace systems, and 13 grade stabilization structures. Eight streambank stabilization projects were installed on 2,373 linear feet of streambank on the main channel and its tributaries. These included one bendway weir project (consisting of seven weirs), one willow post planting, and six longitudinal peakstone toe protection projects.

Project Location: Counties of Jasper, Crawford, Edgar, Coles, Cumberland, and Clark

Subgrantee: North Fork Conservancy District
Post Office Box 7, 110 East Main
Casey, Illinois 62420

Project Reports and Other Informational Materials:
**Title:** Camp Creek Restoration and Watershed Management

**Purpose:** This project improved water quality through the implementation of conservation practices on upland cropland, hog lots, destabilized streambanks, and the provision of education to the watershed community. Water quality benefits were achieved through construction of 1,350 feet of terraces and diversions, 47 water and sediment control basins, 3.7 acres of grassed waterways, 11.9 acres of critical area seedings, and 450 feet of willow post plantings for the stabilization of streambanks along Camp Creek (ILDGI01).

**Project Location:** Brown County

**Subgrantee:** Brown County Soil and Water Conservation District
R.R. #4
Mt. Sterling, Illinois 62353

**Project Reports and Other Informational Materials:**


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**Title:** Milne Creek Phase 2 Project

**Purpose:** The City of Lockport continued the streambank stabilization of Milne Creek initiated with funding under Section 319 in FFY94. An additional 1,240 linear feet of streambank was stabilized using bio-engineering techniques (coconut rolls and A-
jacks). Also, public education materials were developed and presented to advance the need for better care of the water resources in the area.

**Project Location:**  Will County

**Subgrantee:**  City of Lockport  
222 East 9th Street  
Lockport, Illinois 60441  

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,240 ft.</td>
<td>67</td>
<td>57</td>
<td>113</td>
</tr>
</tbody>
</table>

96-17(319)JC

**Title:**  Klein Creek Project

**Purpose:**  This project stabilized 1,000 feet of eroding streambanks along Klein Creek (ILGBK05) using bioengineering techniques (lunkers, willow posts, vegetation, etc.) to reduce erosion and improve water quality. Local teachers were taught techniques for controlling nonpoint source pollution and stabilizing eroding streambanks. These teachers presented this knowledge to their grade school classes and students developed and implemented nonpoint source pollution control strategies to control streambank erosion.

**Project Location:**  DuPage County

**Subgrantee:**  Forest Preserve District of DuPage County  
Fullersburg Woods Educational Center  
3609 Spring Road  
Oak Brook, Illinois 60521  

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,000 ft.</td>
<td>10</td>
<td>10</td>
<td>20</td>
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</table>

96-19(319)CD
**Title:** Chicagoland Environmental Network

**Purpose:** The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

**Project Location:** Cook County

**Subgrantee:** Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

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**Title:** Southeast Illinois Oil Brine Damage Reclamation Project

**Purpose:** This project demonstrated four (4) different cost-effective methods (organic matter, mineral application, plant materials, and composite test) for the reclamation of oil brine damaged sites to reduce nonpoint source pollution in the Wabash River (ILB07) and Saline River (ILAT05) watersheds. It is estimated that there is a total of 7,120 oil brine damaged sites within the project area. Runoff from these sites carry sediment, salinity, chlorides, and petroleum wastes. Four job sheets and an information packet were developed which describe materials, rates, and management techniques for use by affected landowners.

**Project Location:** Counties of Gallatin, Hamilton, Saline, & White.

**Subgrantee:** Shawnee Resource Conservation & Development Area, Inc.
Rural Route 6, Post Office Box 255
1305 North Carbon
Marion, Illinois 62959

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<th>BMP Code</th>
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<th>Amount (acres)</th>
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<tbody>
<tr>
<td></td>
<td>Land Reconstruction, Currently Mined Land</td>
<td>20</td>
<td>Sediment (tons/year)</td>
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<td></td>
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<tr>
<td>544</td>
<td></td>
<td>20</td>
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</tbody>
</table>
Title: Determining the Effective Discharges of Illinois Streams

Purpose: This project determined the effective discharges of Illinois streams so that these values can be used in guiding stream restoration projects. Effective discharge is the discharge (or range of discharges) that is responsible for transporting the comparatively largest fraction of the sediment load for that stream.

Subgrantee: Illinois State Water Survey
           Post Office Box 697
           Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:


Title: Pittsfield National Monitoring Program

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, 1995, 1996, 1997, and 1998.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
           Post Office Box 697
           Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:


67
Honey Creek Watershed Project

Purpose: This project involved the construction of 25 large ponds, along with 6 riffles and stream barbs in tributary streams of Honey Creek (ILKCAG01) to provide increased dissolved oxygen while retaining silt, nutrients, and pesticides from immediately entering the stream. The project augmented conventional land and water treatment programs currently existing in the watershed through the construction of water holding basins in the extreme lower reaches of the side tributaries off the main stem of Honey Creek.

Project Location:  Pike County

Subgrantee:   Pike County Soil & Water Conservation District
              1319 West Washington Street
              Pittsfield, Illinois 62363

BMP Implementation Summary:

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<th>Nitrogen (lbs/year)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Pond</td>
<td>25</td>
<td>14,880</td>
<td>5,041</td>
<td>10,080</td>
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<td></td>
<td>Stream Channel Stabilization</td>
<td>?</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

North Fork Vermilion River Project

Purpose: Operators in the North Fork Vermilion River (ILBPG09) watershed were contacted to increase awareness and to help them adopt conservation measures. Best management practices (BMPs) were designed and constructed to reduce siltation and nutrient/pesticide transport. BMPs to be used in this project included 6,150 feet of terraces and 7.5 acres of waterways. Public meetings will be conducted to increase awareness to all citizens in the watershed.

Project Location:  Vermilion County

Subgrantee:   Vermilion County Soil & Water Conservation District
              191 South Henning Road
              Danville, Illinois 61832

Project Reports and Other Informational Materials:

BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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<th>Nitrogen (lbs/year)</th>
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<tbody>
<tr>
<td>600</td>
<td>Terrace</td>
<td>6,150 ft.</td>
<td>989</td>
<td>?</td>
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<tr>
<td>412</td>
<td>Grassed Waterway</td>
<td>7.5 ac.</td>
<td>240</td>
<td>?</td>
<td>?</td>
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</table>

Title: Upper Sangamon River Basin Water Quality Improvement Project

Purpose: This project reduced the amount of nonpoint source (NPS) pollution in the Upper Sangamon River (ILE28) basin and Lake Decatur (ILREA) by working in direct cooperation with the majority of the basin’s land use decision makers. The two target NPS pollutants were nutrients and sediment. Through subcontracts with local soil and water conservation districts one-on-one on-site technical and educational assistance was provided to landowners throughout the watershed. Cost-share funds were used to implement agricultural best management practices including GIS/GPS w/fertilizer monitors and two wetlands.

Project Location: Macon County

Subgrantee: City of Decatur
#1 Gary K. Anderson Plaza
Decatur, Illinois 62523-1196

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
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</thead>
<tbody>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>3.0 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>590</td>
<td>Nutrient Management</td>
<td>40,183 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

Title: Addison Creek Streambank Stabilization Project

Purpose: This project stabilized approximately 2,720 feet of eroding streambanks along Addison Creek (ILGLA01) in the city of Northlake. The project included the installation of 715 feet of rip rap and 700 feet of lunkers on the north bank and 455 feet of rip rap and 850 feet of lunkers on the south bank to reduce erosion and improve water quality.

Project Location: Cook County
Subgrantee: Addison Creek River Conservation District
55 East North Avenue
Northlake, Illinois 60164

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>2,720 ft.</td>
<td>209</td>
<td>178</td>
<td>356</td>
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<tr>
<td>97-4(319)JC</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Title: Streambank Stabilization of Spring Brook No. 1

Purpose: This project stabilized eroding streambanks along 4,000 feet of Spring Brook No.1 (ILGBKA), a tributary to the West Branch of the DuPage River using bioengineering techniques (i.e., re-establishment of native riparian vegetation, brush mattress, vegetated geogrid with fiber roll, etc.) to reduce erosion and improve water quality.

Project Location: DuPage County

Subgrantee: DuPage County Department of Environmental Concerns
421 North County Farm Road
Wheaton, Illinois 60187

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
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<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>4,000 ft.</td>
<td>528</td>
<td>449</td>
<td>898</td>
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<tr>
<td>97-6(319)JC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Title: TAM Golf Course Streambank Stabilization

Purpose: This project stabilized approximately 1,715 feet of eroding streambanks along the North Branch of the Chicago River (ILHCC08) using bioengineering techniques (A-jacks, Bar Root River Birch, Red Twig Dogwood, prairie and wetland plants) and the creation of a 1.5 acre wetland to reduce erosion and improve water quality. An
educational stand was installed to describe the wetland and streambank stabilization practices.

**Project Location:**  Cook County

**Subgrantee:**  Niles Park District  
7877 Milwaukee Avenue  
Niles, Illinois 60714

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,715 ft.</td>
<td>132</td>
<td>112</td>
<td>224</td>
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<tr>
<td>800</td>
<td>Urban Stormwater Wetland</td>
<td>1.5 ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
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</table>

97-7(319)/SR

**Title:**  Langendorf Pond Retrofit to Reduce Nonpoint Source Pollution

**Purpose:**  This project involved stream restoration activities and modification of an existing 2.5 acre impoundment (Langendorf Pond) on Flint Creek (ILDTZS01) to reduce nonpoint source pollution and enhance aquatic habitat. The modifications included 1) dam removal to restore the pond to a 300 foot long meandering stream channel and a wetland area, 2) installation of biotechnical streambank stabilization techniques along 360 feet of Flint Creek, 3) removal of a petting zoo, 4) establishment of a buffer of native prairie vegetation around the riparian area, and 5) installation of a 360 foot long swale to filter parking lot runoff. An interpretive signage system and educational program was also implemented to educate the public about nonpoint source pollution and the ecological benefits of the project.

**Project Location:**  Lake County

**Subgrantee:**  Village of Barrington  
Department of Public Works  
206 South Hough Street  
Barrington, Illinois 60010

**Project Reports and Other Informational Materials:**

“Langendorf Pond Retrofit to Reduce Nonpoint Source Pollution – A Project to retrofit an Onstream Impoundment in the Flint Creek Watershed.”  April 2000.  Village of Barrington.
BMP Implementation Summary:

<table>
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<th>BMP Name</th>
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<td></td>
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<td>Obstruction Removal</td>
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<td>?</td>
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<tr>
<td>009</td>
<td>Stream Channel Restoration</td>
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</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>360 ft.</td>
<td>4</td>
</tr>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>2.06 ac.</td>
<td>?</td>
</tr>
<tr>
<td>472</td>
<td>Livestock Exclusion</td>
<td>0.5 ac.</td>
<td>?</td>
</tr>
<tr>
<td>835</td>
<td>Urban Filter Strip</td>
<td>360 ft.</td>
<td>?</td>
</tr>
</tbody>
</table>

Title: National Monitoring Strategy on Lake Pittsfield

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, 1995, and 1996. The project was a cooperative Section 319/314 effort for lake restoration and water quality improvement.

Project Location: Pike County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Title: Waukeegan River National Monitoring Strategy (Phase 4)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukeegan River (ILQ01). A videotape was also produced which documents the monitoring program and the conditions of the physical and biological enhancements achieved on the Waukeegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
Post Office Box 697
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:


97-8(319)ST

97-9(319)ST

97-10(319)ST
Title: Des Plaines Streambank Restoration Project

Purpose: This project stabilized approximately 4,000 feet of eroding streambanks along the Des Plaines River (ILG30) using bioengineering techniques to reduce erosion and improve water quality. Approximately 2,600 feet of streambank were stabilized through selective brush removal, weed control, and planting of native vegetation. Live stakes (450 feet) and live fascines (350 feet) were also installed. The slope was reconstructed on a 600 foot length of streambank. Because of the high potential for erosion, the fine-grained sands were removed from this site during reconstruction. An organic clay cover was placed over the site and covered with soil and an erosion control blanket. The area was seeded and live stakes and posts installed. However, the clay cover interfered with the flow of groundwater into and out of the bank. Hydrostatic pressure exceeded the material strength, causing the bank to fail and be washed away by the river. Since the failure, vegetation was re-established and the 600 foot site was stabilizing. A catch basin, storm sewer, and rip rap outlet was also installed at a point of discharge of surface runoff into the river that was experiencing severe erosion. The project included an education/information component in which college students and local community residents were taught techniques for controlling nonpoint source pollution and stabilizing eroding streambanks. A videotape of the project was developed along with educational seminars and news releases.

Project Location: Cook County

Subgrantee: Oakton Community College
1600 East Golf Road
Des Plaines, Illinois 60016-1268

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<thead>
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<th>BMP Name</th>
<th>Amount</th>
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<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>4,000</td>
<td>95 95 80 160</td>
</tr>
<tr>
<td>945</td>
<td>Subsurface Drain (Catch Basin)</td>
<td>1 (no.)</td>
<td>?  ?  ?  ?</td>
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</table>

Title: Alternative Pavement Deicing Materials Brochure

Purpose: An educational/technical assistance brochure was developed on alternatives to and appropriate uses of pavement deicing materials. The brochure addressed adverse
environmental effects, alternative deicing materials, alternatives to deicing (e.g., abrasives, plowing), application rates and conditions, costs of deicing, and environmental costs of deicing. The brochure was distributed to affected parties representing highway agencies, local governments, and owners of commercial land, and made available to members of the general public and interest groups.

**Project Location:** Statewide

**Subgrantee:** Northeastern Illinois Planning Commission  
222 South Riverside Plaza, Suite 1800  
Chicago, Illinois 60606-6097

**Project Reports and Other Informational Materials:**


---

**Title:** Jefferson County Outdoor Education Facility

**Purpose:** This project educated the citizens of Jefferson County about nonpoint source (NPS) pollution and the use of best management practices (BMPs) to control it. An existing outdoor educational facility was enhanced by using BMPs to promote the control of NPS pollution. A “Neighbor to Neighbor” program was implemented to strengthen the network of landowners who practice water quality protection and to promote the use of BMPs by others. Selected BMPs (i.e., filter strips, terraces, grassed waterways, ponds, streambank stabilization, etc.) were implemented through the “Neighbor to Neighbor” program to reduce NPS pollution in the Casey Fork (ILNJ07) watershed. Also, NPS pollution was reduced through the application of landscape waste and compost materials on oil brine damaged sites.

**Project Location:** Jefferson County

**Subgrantee:** Jefferson County Soil & Water Conservation District  
109 Shiloh Drive  
Mt. Vernon, Illinois 62864

**Project Reports and Other Informational Materials:**


BMP Implementation Summary:

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<tr>
<td>543</td>
<td>Land Recons.</td>
<td>1.5 ac.</td>
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<td>?</td>
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</table>

97-13(319)ST

**Title:** Glen Shoals Restoration Project

**Purpose:** The project included the stabilization of approximately 3,605 feet of eroding shoreline along Glen Shoals Lake (ILROL) using bioengineering techniques (A-jacks, willow posts, vegetation, etc.).

**Project Location:** Montgomery County

**Subgrantee:** Montgomery County Soil & Water Conservation District  
1621 Vandalia Road  
Hillsboro, Illinois 62049

BMP Implementation Summary:

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<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>3,605 ft.</td>
<td>195</td>
<td>166</td>
<td>332</td>
</tr>
</tbody>
</table>

97-14(319)ST

**Title:** Willoway Brook Streambank Stabilization Project

**Purpose:** This project reduced erosion and nonpoint source pollution through the stabilization of approximately 1,280 feet of eroding streambanks along Willoway Brook, a tributary of the East Branch DuPage River (ILBGL10), located on the Morton Arboretum property. Bioengineering techniques (i.e., lunkers, A-jacks, geogrid, minor stream re-grading, vegetative stabilization, fiber rolls) were used. Rock riffles were also installed in five locations. An educational program was implemented to present visitors with information on topics including water pollution control, best management practice implementation, and land use impacts on water resources.

**Project Location:** DuPage County

**Subgrantee:** The Morton Arboretum  
4100 Illinois Route 53  
Lisle, Illinois 60532-1293

**Project Reports and Other Informational Materials:**

BMP Implementation Summary:

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<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,280 ft.</td>
<td>120</td>
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<tr>
<td>584</td>
<td>Stream Channel Stabilization</td>
<td>1,280 ft.</td>
<td>40</td>
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</table>

97-17(319)CD

Title: Four Lakes Village Streambank Stabilization Project

Purpose: This project stabilized 1,135 feet of eroding streambanks along a segment of the East Branch of the DuPage River (ILGBL10) using bioengineering techniques to reduce erosion and improve water quality. A combination of A-jacks and gabion baskets were used to stabilize the toe of the streambank where a majority of high velocity flows occur. Above the A-jacks and gabion baskets, the soil was back-filled, covered with an erosion control blanket and seeded with native vegetation.

Project Location: DuPage County

Subgrantee: The Conservation Foundation
10S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,135 ft.</td>
<td>125</td>
</tr>
</tbody>
</table>

97-18(319)JC

Title: Stream Classification & Fish Sampling Protocols

Purpose: This project developed a system to delineate segments of Illinois streams and classify each segment into one of several possible categories or types developed guidelines for effectively sampling fish communities in Illinois streams, using electrofishing gear.

Project Location: Statewide

Subgrantee: Illinois History Survey
Center of Aquatic Ecology
607 E. Peabody Drive
Champaign, Illinois 61820

97-20(319)GG
Title: Initial Site Evaluation (ISE) Procedure for Wetland Creation or Restoration

Purpose: This project involved the development of an Initial Site Evaluation (ISE) Procedure that can be used to evaluate the suitability of a site for wetland creation or restoration. The Report describes a rapid, transferable, standardized, and cost-effective procedure for evaluating a site’s hydrogeologic potential for supporting a healthy wetland system. The Report identifies the hydrogeologic features along with the associated ranking or appraisal criteria and guidelines that should be used to assess a site’s potential for successful wetland creation or restoration. The report contains guidance that will assist other users of the procedure, although it is expected that each user will differ in experience and may not be able to perform all aspects of the procedure.

Project Location: Statewide

Subgrantee: Illinois State Geological Survey
615 East Peabody Drive
Champaign, Illinois 61820

Project Reports and Other Informational Materials:


97-21(319)ST

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Association of Illinois Soil & Water Conservation District (AISWCD) helped counties facilitate the enrollment process of the Conservation reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conduct field visits to determine program eligibility. The county SWCDs completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtain the necessary producer signatures on required documents, and complete all state CREP enrollment forms. The county SWCDs coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of Bureau, Christian, Fulton, Knox, Marshall, Menard, Montgomery, Putnam, Sangamon, & Shelby

Subgrantee: Association of Illinois Soil & Water Conservation Districts
2520 Main Street
Springfield, Illinois 62702

97-22(319)JC
FFY 1998 FEDERALLY FUNDED SECTION 319 PROJECTS

Title: Cache River Watershed No Till Project

Purpose: This project was aimed at limited resource farmers operating small farms within the Cache River (ILIX04) watershed. The objective of increasing no till crop production by these hard to reach operators by 4,000 acres annually was accomplished by placing a no till drill in the Johnson, Pulaski-Alexander, and Union soil and water conservation districts. Education and technical assistance was provided through a Conservation Tillage Specialist employed via contract with the Shawnee RC & D.

Project Location: Johnson, Pulaski-Alexander, and Union Counties

Subgrantee: Shawnee Resource Conservation & Development Area
R.R. 6, Box 255, 1305 N. Carbon
Marion, Illinois 62959

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<td></td>
<td></td>
<td>Sediment (tons/year)</td>
</tr>
<tr>
<td>329</td>
<td>Conservation Tillage</td>
<td>4,435.1 ac.</td>
<td>55,382</td>
</tr>
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</table>

Title: Phase 2 Implementation of Flint Creek Watershed Management Plan

Purpose: The purpose of this project was to continue the implementation of the Flint Creek Watershed Management Plan and demonstrate measures to address the nonpoint source pollution impacts of urban runoff and streambank erosion. Seven riffles were installed and approximately 2,400 feet of Flint Creek (ILDTZS01) were stabilized through a residential section of Barrington. An existing dry bottom detention basin was retrofitted to create a wetland detention basin in Lake Zurich to capture urban runoff pollutants and attenuate flow rates to Flint Creek. Approximately 800 feet of Flint Creek were stabilized along a reach of stream adjacent to Citizens for Conservation property.

Project Location: Lake County

Subgrantee: Northeastern Illinois Planning Commission
222 South Riverside Plaza, Suite 1800
Chicago, Illinois 60606-6097
Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<tr>
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<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>3,200 ft.</td>
<td>108</td>
<td>108</td>
<td>216</td>
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<tr>
<td>800</td>
<td>Urban Stormwater Wetland</td>
<td>1 (no.)</td>
<td>?</td>
<td>6</td>
<td>22</td>
</tr>
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</table>

Title:  Waukegan River Wetland Restoration Project

Purpose: This project restored a 1/2 acre wetland adjacent to the Waukegan River (ILQ01) in Washington Park to reestablish the natural function and reduce nonpoint source pollution impacts. The project also included the stabilization of 300 feet of eroding streambank on the Waukegan River using bioengineering techniques. An interpretive observation station was constructed overlooking the site to present information about the project and nonpoint source pollution.

Project Location:  Lake County

Subgrantee: Waukegan Park District
2000 Belvidere Street
Waukegan, Illinois 60085

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<thead>
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</thead>
<tbody>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>0.5 ac.</td>
<td>?</td>
<td>?</td>
<td>2</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>300 ft.</td>
<td>32</td>
<td>32</td>
<td>64</td>
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</tbody>
</table>

Title:  Mitchell Park Ravine Watershed Project

Purpose: The project focused on soil erosion control and water quality in an urban watershed tributary to the Mississippi River and determined to be high priority by the East Moline Stormwater Committee. Proven soil erosion and sediment control and stormwater management approaches planned in consultation with the NRCS were utilized. Practices included grade stabilization structures, streambank stabilization,
stormwater detention basins, critical area treatment, and permanent vegetative cover.

**Project Location:** Rock Island County

**Subgrantee:** City of East Moline

912 16th Avenue

East Moline, Illinois 61244

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<th>BMP Code</th>
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<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Grade Stabilization</td>
<td>2 (no.)</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>350</td>
<td>Sediment Basin</td>
<td>3 (no.)</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>910</td>
<td>Rock Outlet Protection</td>
<td>1 (no.)</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>840</td>
<td>Grassed Lined Channel</td>
<td>? ac.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>? ft.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

**Title:** Ground Water Protection through Pollution Prevention

**Purpose:** The purpose of this project was to impact water quality as it relates to ground water resources in rural areas in the most positive way by implementing viable prevention programs on the local level. The scope of this project was integrated with ongoing activities related to the Illinois Department of Agriculture’s (IDOA) Ground Water Protection Program, Illinois FarmAsyst support mechanisms, as well as other related water quality efforts.

**Project Location:** Statewide

**Subgrantee:** Illinois Department of Agriculture

Post Office Box 19281

Springfield, Illinois 62794-9281

**Title:** Reducing Herbicides with GPS Application

**Purpose:** Global Positioning System (GPS) equipment was mounted on an ordinary field sprayer and used to apply herbicides to cropland at four (4) field demonstrations over a two year period. The project was conducted in the Little Cache River (ILADDB01) watershed. This was done to demonstrate how GPS can reduce the amount of herbicide and still get acceptable crop production results. Field days were
held at the demonstration area and special edition newsletters were distributed to promote and highlight this project.

**Project Location:** Johnson County

**Subgrantee:** Johnson County Soil & Water Conservation District
807 North 1st Street
Vienna, Illinois 62995

**Project Reports and Other Informational Materials:**


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**Title:** Shelby Creek Restoration and Watershed Management Project

**Purpose:** This project improved the water quality of Shelby Creek and the LaMoine River (ILDG01) through the implementation of conservation practices on upland cropland and destabilized streambanks. Implementation of best management practices included 1,700 feet of terraces and diversions, 104 water and sediment control basins (19,095 feet), 1.5 acres of grassed waterways, and 225 feet of streambank stabilization with willow posts. The project also provided education to the watershed community through news releases, newsletters, and tours.

**Project Location:** Brown County

**Subgrantee:** Brown County Soil & Water Conservation District
Rural Route #4
Mt. Sterling, Illinois 62353

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<th>BMP Name</th>
<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>Terrace</td>
<td>1,700 ft.</td>
<td>108</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>638</td>
<td>Water &amp; Sediment Control Basin</td>
<td>19,905 ft.</td>
<td>2,339</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>412</td>
<td>Grassed Waterway</td>
<td>1.5 ac.</td>
<td>247</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>225 ft.</td>
<td>162</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

98-7(319)ST
Title: Model Watershed for Water Quality

Purpose: This project provided a hands-on opportunity for the public to learn about watershed management by viewing best management practices (BMPs) in a defined watershed. In addition to the BMPs, information on signs and handout materials are available that will foster educated decisions regarding individual actions that will help improve water quality. Complete with a flowing stream, a wetland and a lake, a new exhibit was constructed on the grounds of the Illinois State Fair in 2001. Visitors can stroll through a 13-station miniature "watershed". Approximately one acre in size, the watershed park is located not far inside the Fair's main gates, behind and below the Department of Agriculture headquarters. Its stream, wetland and lake are all designed to provide fun and relaxation along with information about different land uses and environments in Illinois. A mix of static, hands-on and electronic displays was offered. Illustrating such diverse topics as urban stormwater runoff, geology, mined land and beneficial bugs, Watershed Park offers fair visitors benches, drinking water and a water drop mascot named "Splash." Recognizing the Fair's historic role as an agriculture exposition, there were stations illustrating farm and home safety, Illinois soil types, soil conservation and pasture management.

Project Location: Sangamon County

Subgrantee: Illinois Department of Agriculture  
State Fairgrounds, P.O. Box 19281  
Springfield, Illinois 62794-9281

Project Reports and Other Informational Materials:


98-9(319)CD

Title: Old Tavern Park Shoreline Stabilization Project

Purpose: The purpose of this project was to stabilize 1,250 linear feet of shoreline and create approximately 9,000 square feet of buffer zone in and around the retention basin located within Old Tavern Park. Shoreline stabilization was accomplished by using bioengineering techniques and the buffer zone will consist of a “no mow” grass mix and a low growing wet prairie mix. The project was located in the East Branch of the DuPage River (ILGBL05).

Project Location: DuPage County

Subgrantee: Lisle Park District  
1825 Short Street  
Lisle, Illinois 60532
Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<tr>
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<td></td>
<td>Sediment (tons/year)</td>
<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,250</td>
<td>6</td>
</tr>
</tbody>
</table>

98-10(319)ST

Title: Streambank Restoration on the West Branch, DuPage River

Purpose: This project stabilized eroding streambanks along two (2) sites on the West Branch, DuPage River (ILGBK05) (610 feet), along three (3) sites on the East Branch, DuPage River (ILGBL10) (1,315 feet), and along one (1) site on Keeneyville Ditch, a direct tributary to Mallard Lake (ILWGX) (1,140 feet). The Project utilized bioengineering techniques (A-jacks, lunkers, brush clearing, re-grading, and native vegetation) to stabilize the streambank and enhance water quality, improve riparian corridor and restore wildlife habitat. The proposal also included a significant educational component geared towards the general public, stream users, streamside landowners, municipalities, and local schools.

Project Location: DuPage County

Subgrantee: The Conservation Foundation
10 S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<tr>
<td></td>
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<td>Sediment (tons/year)</td>
<td>Phosphorus (lbs/year)</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>3,065 ft.</td>
<td>81</td>
</tr>
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</table>

98-11(319)CD
Title: Greater Eliza Watershed Project

Purpose: The purpose of this project was to protect and improve the water quality of the Eliza Creek (ILMWD01) watershed by reducing nonpoint source pollutants. The project provided cost-share assistance to watershed landowners to implement a variety of upland and floodplain best management practices (i.e., sediment basins, ponds, terraces, waterways, grade stabilization structures, water and sediment control basins, vegetative filter strips). An educational program was also implemented to educate the public about the importance of streambank stabilization and nonpoint source pollution.

Project Location: Mercer County

Subgrantee: Mercer County Soil & Water Conservation District
308 Southeast 8th Avenue
Aledo, Illinois 61231

Project Reports and Other Informational Materials:


BMP Implementation Summary:

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<th>Nitrogen (lbs/year)</th>
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<tr>
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<td>Sediment Basin</td>
<td>1 (no.)</td>
<td>2.159</td>
<td>?</td>
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<td>378</td>
<td>Pond</td>
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<td>670.6</td>
<td>?</td>
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<tr>
<td>393</td>
<td>Filter Strip</td>
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<td>73.5</td>
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<td>410</td>
<td>Grade Stabilization Structure</td>
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<td>741.4</td>
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<tr>
<td>412</td>
<td>Grassed Waterway</td>
<td>6.4 ac.</td>
<td>777</td>
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<td>?</td>
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<tr>
<td>600</td>
<td>Terrace</td>
<td>7,550 ft.</td>
<td>732.4</td>
<td>?</td>
<td>?</td>
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<tr>
<td>638</td>
<td>Water &amp; Sediment Control Basin</td>
<td>4,835</td>
<td>2,315.6</td>
<td>?</td>
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</tbody>
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98-12(319)JC

Title: Mackinaw River Project (Phase 2)

Purpose: This project continued to build widespread community and individual support for the adoption of best management practices consistent with the consensus derived statement of objectives and strategies of the Mackinaw River Watershed Management Plan. The project focuses on education/outreach and the placement of highly visible best management practices at locations throughout the watershed. The project implemented four wetland restoration projects (20 acres); two sediment retention basins (5 acres); two streambank stabilization projects (1,100 feet) using re-grading, willows, and native vegetation; and woodland management (1.5 acres).

Project Location: Mason, Tazewell, Woodford, McLean, & Ford Counties

Subgrantee: The Nature Conservancy
1201 South Main Street
Eureka, Illinois 61530
Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
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<tbody>
<tr>
<td></td>
<td></td>
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<td>Sediment (tons/year)</td>
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<tr>
<td>350</td>
<td>Sediment Basin</td>
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<tr>
<td>580</td>
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<tr>
<td>657</td>
<td>Wetland Restoration</td>
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</tr>
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<td>Woodland Improvement</td>
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<td></td>
<td></td>
<td></td>
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</tr>
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<td>82</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Nitrogen (lbs/year)</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Title: Waukegan River National Monitoring Program (Phase 5)

Purpose: This project continued the utilization of the national monitoring program initiated under Section 319 in federal fiscal year 1994 to demonstrate the effectiveness of biotechnical stream stabilization techniques implemented on the Waukegan River (ILQ01). A videotape was also produced which documents the monitoring program and the conditions of the physical and biological enhancements achieved on the Waukegan River.

Project Location: Lake County

Subgrantee: Illinois State Water Survey
            Post Office Box 697
            Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:


Title: Pittsfield National Monitoring Program

Purpose: This project continued the identification of sources of sediment and the efficiency of sediment control practices on the tributary watershed of Lake Pittsfield (ILRDP). This project was previously funded under Section 319 in federal fiscal years 1992, 1993, 1994, 1995, 1996, and 1997.

Project Location: Pike County
Subgrantee: Illinois State Water Survey  
Post Office Box 697  
Peoria, Illinois 61652-0697

Project Reports and Other Informational Materials:


Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

Project Location: Cook County

Subgrantee: Chicago Zoological Society  
3300 South Golf Road  
Brookfield, Illinois 60513

Title: Northeastern Illinois Community Assistance Office

Purpose: This project provided training to Natural Resource Conservation Service regional staff on water quality regulations and technical issues. Furthermore, the project encouraged the provision of nonpoint source pollution control related technical assistance to appropriate local agencies and organizations in northeastern Illinois. The Natural Resources Conservation Service’s Northeastern Illinois Community Assistance Office was established to serve the six county northeastern Illinois area. This office provided technical assistance to soil and water conservation districts, planning commissions, county departments, townships and municipalities in northeastern Illinois. In addition to direct technical assistance, the staff of this office provided information/education and training assistance. The major focus of the office was on erosion/sediment control, water quality, and natural resource management.

Project Location: Counties of Lake, McHenry, Kane, DuPage, Cook, and Will

Subgrantee: USDA Natural Resource Conservation Service  
603 East Diehl Road, Suite 131  
Naperville, Illinois 60563-7808
Title: Water Quality Enhancement Training

Purpose: A USDA – Natural Resources Conservation Service (NRCS) detailed a soil conservationist to the Illinois EPA’s Bureau of Water to assist the Illinois EPA in implementing Illinois’ Nonpoint Source Management Program. This NRCS employee 1) facilitated the integration of NRCS programs such as EQIP with the Illinois EPA’s watershed management planning program; 2) provided technical support in the development of program cross-training modules for staff of the Illinois EPA, NRCS, soil and water conservation districts, and the Illinois Farm Bureau; 3) provided updates on activities associated with the NRCS Watershed Science Institute, Water Science and Technology Team, Wetland Science Institute, and other special groups of the NRCS having activities impacting water quality and watershed planning; 4) assisted in Illinois EPA efforts to further promote the state water quality focus group under the guidance of the Natural Resources Coordinating Council and Watershed Management Committee; 5) trained Illinois EPA, NRCS, SWCDs, and the Illinois Farm Bureau in the use of NRCS Resource Planning Guidebook and updates; 6) incorporated use of the NRCS’s nine steps of planning for watershed planning; etc.

Project Location: Statewide

Subgrantee: USDA – Natural Resources Conservation Service
1902 Fox Drive
Champaign, Illinois 61820

Title: Roosevelt Park Pond & Waukegan River Restoration

Purpose: This project included the design and installation of an interpretive signage and pathway, streambank (rock boulders with vegetation) and wetland restoration techniques (modification and installation of two riffles, wetland planting, deepen the existing forebay area) on the South Branch of the Waukegan River (ILQ01) by the retrofit of the existing Roosevelt Park sediment basin. These stream and wetland restoration efforts helped to improve water quality, create wildlife habitat, and provide for environmental education opportunities.

Project Location: Lake County

Subgrantee: Waukegan Park District
2000 Belvidere Street
Waukegan, Illinois 60085

Project Reports and Other Informational Materials:

Title: Jacksonville Branch Restoration Project – Phase 1

Purpose: This project installed best management practices (BMPs) along 1,960 feet of bank on Jacksonville Branch, a tributary to Jacksonville Branch, and a side channel reservoir (Lower Lagoon) of Jacksonville Branch (ILELA11) located at Washington Park in Springfield, Illinois. The BMPs were designed to arrest streambank and shoreline erosion and reduce nonpoint source pollution while enhancing aquatic habitat and aesthetics. The project included an educational component to inform residents and local government representatives about the project and nonpoint source pollution through a public meeting and signs.

Project Location: Sangamon County

Subgrantee: Springfield Park District
2500 South 11th Street
Springfield, Illinois 62703

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
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<th>Nitrogen (lbs/year)</th>
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<tr>
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<tr>
<td>584</td>
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<tr>
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<td>701</td>
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<tr>
<td>835</td>
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<tr>
<td>870</td>
<td>Level Spreaders</td>
<td>2 (no.)</td>
<td>?</td>
<td>18</td>
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</tr>
</tbody>
</table>

Title: Lake Pittsfield Shoreline Restoration Project

Purpose: This project stabilized approximately 2,100 feet of eroding shoreline along Lake Pittsfield (ILRDP) and established, where possible, a buffer of native vegetation along this segment of shoreline to reduce erosion, filter runoff, and enhance aquatic habitat.
**Project Location:** Pike County

**Subgrantee:** City of Pittsfield  
215 North Monroe Street  
Pittsfield, Illinois 62363

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>2,100 ft.</td>
<td>35</td>
<td>29</td>
<td>59</td>
</tr>
</tbody>
</table>

98-21(319)ST

**Title:** Willoway Brook Streambank Stabilization Project – Phase 2

**Purpose:** This project stabilized approximately 1,050 feet of eroding streambank along Willoway Brook located in the Morton Arboretum. The streambank was stabilized using bioengineering techniques to reduce erosion and improve water quality. Willoway Brook is a tributary of the East Branch DuPage River (ILGBL10). The project included reshaping the streambank, erosion control blankets, native forbs and woody plants, vegetated geogrids, and fifteen rock riffles.

**Project Location:** DuPage County

**Subgrantee:** The Morton Arboretum  
4100 Illinois Route 53  
Lisle, Illinois 60532-1293

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
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</thead>
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<tr>
<td>584</td>
<td>Stream Channel Stabilization</td>
<td>1,050 ft.</td>
<td>59</td>
<td>50</td>
<td>101</td>
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</tbody>
</table>

98-22(319)CD
Title: Lakeshore & Streambank Litter Collection Assistance Program

Purpose: This project provided financial assistance to selected applicants to conduct lakeshore and streambank clean-up events. Local organizations that have previously conducted a lakeshore or streambank clean-up event were eligible to participate. The local sponsor was given up to $2,000 to help conduct their clean-up event. The local sponsor could use the funds for event promotion, event equipment or disposal fees.

Project Location: Statewide

Subgrantee: Not Applicable

Project Reports and Other Informational Materials:


98-23(319)CD
Title: Palzo Surface Mine Project

Purpose: This project addressed surface mine drainage entering Sugar Creek (ILATHG01) from the abandoned portion of the Palzo Mine site. Sugar Creek is a tributary to the Saline River. The Palzo Surface Mine site has severely impacted water quality by perennially draining water of unacceptably high pH, acidity, total iron, and total manganese into the creek. The Illinois Abandoned Mine Lands Reclamation Division designed, constructed and supervised the construction and implementation of structures and techniques to remediate both surface and groundwater nonpoint source drainage into receiving waters. The project reclaimed 60 acres by grading spoil ridges to encourage surface runoff and constructing a reduced-permeability cap to further reduce infiltration, thereby reducing acid groundwater volumes and acid mine seepage. Use of an alkaline material for construction of the cap also provided some treatment to any rainfall that did infiltrate the area.

Project Location: Williamson County

Subgrantee: IDNR – Abandoned Mine Lands Reclamation Division
1907 A Industrial Park Drive
Marion, Illinois 62959

Project Reports and Other Informational Materials:


99-2/1(319)JC

Title: Indian Lake Festival (Dragonfly Marsh Opening)

Purpose: In cooperation with the Illinois EPA, the Brookfield Zoo held a celebration on August 14, 1999 for the official opening of the Dragonfly marsh” exhibit, developed with Section 319 funds under fiscal years 1995 and 1996. The celebration was designed to 1) announce the opening of the Dragonfly Marsh” exhibit, 2) recognize the participants in the exhibit's creation, 3) explain the exhibit's purpose and the importance of nonpoint source pollution control and wetland protection, 4) encourage continued educational activities, and 5) promote cooperation among public and private groups for enhance environmental awareness programs. Attendance at the celebration was by invitation only for selected representatives of environmental organizations, educational institutions, businesses, and governmental agencies.

Project Location: Cook County
**Subgrantee:** Chicago Zoological Society  
Brookfield Zoo  
3300 Golf Road  
Brookfield, Illinois 60513

**Project Reports and Other Informational Materials:**


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**Title:** Explore! A Child’s Nature

**Purpose:** The Brookfield Zoo designed the “Explore! A Child’s Nature” exhibit to present key concepts and interactive experiences which will highlight man’s relationships with animals and nature; examine the ecological, economic, and philosophical connections between people and nature. Information on nonpoint source pollution and related water quality issues was incorporated into the exhibit. The exhibit communicates the impacts of nonpoint source pollution, the importance of water quality protection, and what can be done to minimize nonpoint source pollution and protect water quality.

**Project Location:** Cook County

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**Subgrantee:** Chicago Zoological Society  
Brookfield Zoo  
3300 South Golf Road  
Brookfield, Illinois 60513

**Title:** Conservation Reserve Enhancement Program (CREP) Assistance

**Purpose:** The Cass County Soil & Water Conservation District SWCD) facilitated the enrollment process of the Conservation reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conduct field visits to determine program eligibility. The Cass County SWCD completed the Conservation Reserve Program - 2 form, type the Conservation Plan of Operations, obtain the necessary producer signatures on required documents, and complete all state CREP enrollment forms. The Cass County SWCD coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

**Project Location:** Counties of Cass & Schuyler
Title: Chicagoland Environmental Network

Purpose: The Chicagoland Environmental Network facilitated the exchange of information and resources concerning nonpoint source pollution, water quality, and other related environmental issues. The public was provided access to information and volunteer opportunities through a computer database of environmental organizations and agencies involved in habitat restoration, wetlands, prairies, watershed projects, urban gardening, revitalization programs, energy conservation, and recycling.

Project Location: Cook County

Subgrantee: Chicago Zoological Society
3300 South Golf Road
Brookfield, Illinois 60513

Title: North Branch Chicago River Watershed Project – Phase 2

Purpose: Project partners implemented a variety of BMPs within the watershed. The types of BMPs were identified in the North Branch Chicago River (ILHCC08) Watershed management plan. In addition, the project partners continued to implement an outreach program for adults and children focusing on nonpoint source pollution control and water quality. The applicant investigated and documented the need for changes to local administrative policy, procedure and regulations to meet the plan’s goals and objectives.

Project Location: Counties of Cook and Lake

Subgrantee: Friends of the Chicago River
407 S. Dearborn Street, Suite 1580
Chicago, Illinois 60605

Project Reports and Other Informational Materials:

BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
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<tbody>
<tr>
<td>010</td>
<td>Oil &amp; Grit Separator</td>
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<td>?</td>
<td>?</td>
<td>2</td>
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<td>580</td>
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<td>1,738</td>
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<td>?</td>
<td>6</td>
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<td>286</td>
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<td>657</td>
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<td>?</td>
<td>?</td>
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<tr>
<td>840</td>
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<td>910</td>
<td>Rock Outlet Protection</td>
<td>1 (no.)</td>
<td>?</td>
<td>?</td>
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</table>

Title: East Branch DuPage River WRAS Implementation – Phase 1

Purpose: Best management practices (BMPs) were installed in the East Branch DuPage River (ILGLB10) watershed to reduce nonpoint source (NPS) pollution. An existing storm sewer was “day lighted” and the flow redirected through a constructed wetland (0.69 ac.) before discharging to the East Branch. Both banks of a concrete lined channel were removed along a 1,400-foot segment of the East Branch DuPage River and a more natural stream channel restored as another urban runoff BMP. An existing detention pond was converted into a 1.65-acre stormwater wetland for enhanced pollutant removal. NPS pollution was reduced on Lacy Creek through approximately 6,902 ft. of bioengineering streambank stabilization, a 25-foot wide riparian buffer, and the retrofit of an in-stream pond to restore a 1.15-acre wetland system. Bioengineering techniques were applied to stabilize approximately 2,845 ft. and 1,325 ft. of streambank on Willow Way Brook and St. Joseph’s Cr., respectively, both direct tributaries of the East Branch. The project also included an education program. The East Branch DuPage River is a Category 1 watershed in the Unified Watershed Assessment. The TMDL and implementation plan for the East Branch DuPage River are complete.

Project Location: DuPage County

Subgrantee: The Conservation Foundation
10 S 404 Knoch Knolls Road
Naperville, Illinois 60565

Project Reports and Other Informational Materials:

BMP Implementation Summary:

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<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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<th>Nitrogen (lbs/year)</th>
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<td>1,064</td>
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<td>657</td>
<td>Wetland Restoration</td>
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<td>?</td>
<td>14</td>
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<tr>
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<tr>
<td>835</td>
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<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>870</td>
<td>Level Spreader</td>
<td>1 (no.)</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
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</table>

Title: Macoupin Creek WRAS Development

Purpose: The Illinois EPA assisted local stakeholders with the development of a Watershed Restoration Action Strategy (WRAS) for the Macoupin Creek (ILDA04) watershed, which is a Category 1 watershed identified in the Unified Watershed Assessment. The WRAS is consistent with the Illinois EPA’s draft “Guidance for Developing Watershed Implementation Plans.” The WRAS identifies all of the resources, identifies the sources and causes of pollution, and specifies the recommended best management practices for restoration and protection of the watershed.

Project Location: Macoupin County

Subgrantee: Macoupin County Soil & Water Conservation District
            300 Carlinville Plaza
            Carlinville, Illinois 62626

Project Reports and Other Informational Materials:


99-9(319)GE

Title: Little Vermilion River WRAS Development

Purpose: The Illinois EPA assisted local stakeholders with the development of a Watershed Restoration Action Strategy (WRAS) for the Little Vermilion River (ILDR01) watershed, which is a Category 1 watershed identified in the Unified Watershed Assessment. The WRAS is consistent with the Illinois EPA’s draft “Guidance for Developing Watershed Implementation Plans.” The WRAS identifies all of the resources, identifies the sources and causes of pollution, and specifies the recommended best management practices for restoration and protection of the watershed.

Project Location: LaSalle County
Subgrantee: LaSalle County Soil & Water Conservation District  
1691 North 31st Road  
Ottawa, Illinois 61350

Project Reports and Other Informational Materials:

Title: Total Maximum Daily Load & Implementation Plan Development

Purpose: This project developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within two (2) specific watersheds (East Fork, Kaskaskia (ILOK01); Rayse Creek (ILN01)) on the 303(d) list through the computer modeling. The two watersheds were also Category 1 watersheds in the Unified Watershed Assessment. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.

Project Location: Counties of Clinton, Marion, Fayette, and Jefferson

Subgrantee: Harza Engineering Company  
233 South Wacker Drive  
Chicago, Illinois 60606-6392

Project Reports and Other Informational Materials:
“Rayse Creek (ILNA01) TMDL and Implementation Plan.” September 2003. MWH.

“East Fork, Kaskaskia River (ILOK01) TMDL and Implementation Plan.” August 2003. MWH.

Title: Total Maximum Daily Load & Implementation Plan Development

Purpose: This project developed Total Maximum Daily Loads (TMDLs) and implementation plans for each pollutant within two (2) specific watersheds, Salt Creek (ILGL09) and E. Br. DuPage River (ILGBL10), on the 303(d) list through computer modeling. The two watersheds were also Category 1 watersheds in the Unified Watershed Assessment. For each watershed, computer models were used to identify a distribution of pollutant loading (allocation) that can be expected to result in the attainment of water quality standards. The methodologies used for TMDL development were documented. Modeling results were used to support the development of implementation plans for TMDL attainment.
Project Location: Counties of Cook, DuPage, and Will

Subgrantee: CH2M Hill
727 North First Street, Suite 400
St. Louis, Missouri 63102-2542

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The McDonough County Soil & Water Conservation District (SWCD) facilitated the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conducting field visits to determine program eligibility. The McDonough County SWCD completed the Conservation Reserve Program - 2 form, typed the Conservation Plan of Operations, obtained the necessary producer signatures on required documents, and completed all state CREP enrollment forms. The McDonough County SWCD coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of McDonough and Hancock

Subgrantee: McDonough County SWCD
1607 West Jackson Street
Macomb, Illinois 61455

Title: Conservation Reserve Enhancement Program (CREP) Assistance

Purpose: The Peoria County Soil & Water Conservation District (SWCD) facilitated the enrollment process of the Conservation Reserve Enhancement Program (CREP) by setting appointments with producers to discuss CREP and conducting field visits to determine program eligibility. The Peoria County SWCD completed the Conservation Reserve Program - 2 form, typed the Conservation Plan of Operations, obtained the necessary producer signatures on required documents, and completed all state CREP enrollment forms. The Peoria County SWCD coordinated activities associated with land surveys, producer signatures on easements, and recording easements with the local abstract office. Field assistance was provided to the survey and design teams as well as construction assistance by evaluating the construction expenses and completing form AD-862.

Project Location: Counties of Peoria and Tazewell
**Subgrantee:**  Peoria County SWCD  
2412 West Nebraska Avenue  
Peoria, Illinois 61604

99-14(319)JW

**Title:** Watershed Management Coordination

**Purpose:** The Northeastern Illinois Planning Commission (NIPC) provided coordination and technical assistance to entities (local governments, soil and water conservation districts, planning committees, businesses, volunteer organizations, etc.) undertaking comprehensive watershed management initiatives in northeastern Illinois. NIPC assisted these entities with the development of Watershed Restoration Action Strategies (WRASs) and Watershed Implementation Plans (WIPs), as defined by the Illinois EPA. Priority was given to those watersheds that contain nonpoint source pollution control projects funded by the Illinois EPA, and those within Clean Water Act 303(d) listed waters and/or the Unified Watershed Assessment and Watershed Restoration Priorities for Illinois as identified by the Illinois EPA. NIPC assisted these entities in the compilation and evaluation of resource inventory data, formulation of water quality objectives, selection and implementation of nonpoint source pollution control practices, dissemination of information/education materials for water quality protection, and evaluating program success.

**Project Location:** Counties of Lake, McHenry, Kane, Cook, DuPage, & Will

**Subgrantee:** Northeastern Illinois Planning Commission  
222 South Riverside Plaza, Suite 1800  
Chicago, Illinois 60606-6097

99-15(319)SR

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**Title:** GIS Programming for BMP Location

**Purpose:** The Illinois EPA developed a strategy to establish a geographic information system (GIS) interface with the Illinois EPA’s Projects 2000 database and perform specific queries of the Projects 2000 database. The Projects 2000 database contains the location and other information of best management practices (BMPs) implemented by the Illinois EPA with funding under Section 319 of the Clean Water Act. Programs were developed to allow Illinois EPA to query and map information contained in the Projects 2000 database. The maps identify the type and location of BMPs implemented in selected watersheds along with political subdivisions, surface waters, roads, railways, and other appropriate physical and institutional features.

**Project Location:** Statewide

**Subgrantee:** Not Applicable

99-16(319)CD
**Title:** Mackinaw River Watershed Project – Woodford County

**Purpose:** This project supplemented Phase 1 and Phase 2 of the Mackinaw River Watershed Project. The project focused on the implementation of a cost-share program to assist landowners in the installation of sediment and stormwater retention and streambank stabilization best management practices (BMPs) in the Woodford County portion of the Mackinaw River (ILDK13) watershed. All work was implemented in accordance with the Mackinaw River Watershed Management Plan and the three subwatershed plans as approved by the Illinois EPA. BMPs implemented under this project included twelve ponds (15.2 ac.), one block chute, three grassed waterways (4.3 ac.), 1,175 feet of streambank stabilization, seven riffles to stabilize 635 feet of streambed, and two water and sediment control basins (1,100 ft.).

**Project Location:** Woodford County

**Subgrantee:** Woodford County Soil & Water Conservation District  
937 West Center Street  
Eureka, Illinois 61530

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

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<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
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<th>Phosphorus (lbs/year)</th>
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<td>378</td>
<td>Pond</td>
<td>12 (no.)</td>
<td>404</td>
<td>96</td>
<td>194</td>
</tr>
<tr>
<td>410</td>
<td>Grade Stabilization Structure</td>
<td>1 (no.)</td>
<td>14</td>
<td>14</td>
<td>28</td>
</tr>
<tr>
<td>412</td>
<td>Grassed Waterway</td>
<td>4.3 ac</td>
<td>105</td>
<td>105</td>
<td>210</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,175 ft.</td>
<td>419</td>
<td>119</td>
<td>237</td>
</tr>
<tr>
<td>584</td>
<td>Stream Channel Stabilization</td>
<td>635 ft.</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>638</td>
<td>Water &amp; Sediment Control Basin</td>
<td>1,100 ft.</td>
<td>21</td>
<td>21</td>
<td>42</td>
</tr>
</tbody>
</table>

**Title:** Mackinaw River Watershed Project – Tazewell County

**Purpose:** This project supplemented Phase 1 and Phase 2 of the Mackinaw River (ILDK13) Watershed Project. The project was focused on the implementation of a cost-share program to assist landowners in the installation of streambank stabilization best management practices (BMPs) in the Tazewell County portion of the Mackinaw River watershed. All work to be implemented was in accordance with the Mackinaw River Watershed Management Plan and the three subwatershed plans as approved by the Illinois EPA.

**Project Location:** Tazewell County
Subgrantee: Tazewell County Soil & Water Conservation District
2934 Court Street
Pekin, Illinois 61554

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>5,470 ft.</td>
<td>2,251</td>
<td>1,940</td>
<td>3,880</td>
</tr>
<tr>
<td>584</td>
<td>Stream Channel Stabilization</td>
<td>2,400 ft.</td>
<td>313</td>
<td>266</td>
<td>532</td>
</tr>
</tbody>
</table>

Title: Mackinaw River Watershed Project – NRCS Technical Support

Purpose: The Natural Resources Conservation Service provided technical assistance to the Woodford and Tazewell County Soil and Water Conservation Districts for the implementation of best management practices (BMPs) in the Mackinaw River (ILDK13) watershed. Technical assistance included survey, design, permitting and final construction checks. This project supplemented Phase 1 and Phase 2 of the Mackinaw River Watershed Project. All work implemented was in accordance with the Mackinaw River Watershed Management Plan and the three subwatershed plans as approved by the Illinois EPA.

Project Location: Counties of Tazewell and Woodford

Subgrantee: USDA – NRCS
1902 Fox Drive
Champaign, Illinois 61820

Title: Village of Royal Lakes – Shad Lake Restoration Project

Purpose: The Village of Royal Lakes continued work with the Natural Resources Conservation Service (NRCS) and the Illinois EPA to stabilize eroding lake shoreline and to install a water and sediment retention basin (wetland) upstream of Shad Lake. Shad Lake is located within the Illinois River watershed. This project was the second phase of a major watershed management effort. The first phase included working with landowners and operators in the watershed to install best management practices to reduce soil erosion and stormwater runoff. Phase two implemented lakeshore and in-lake best management practices. The basin/wetland will retain stormwater runoff and trap sediment from a 320-acre subwatershed. The third and final phase
completed dredging of Shad Lake. The project site demonstrates a “total” lake restoration project, (planning, watershed implementation, lake implementation and finally dredging). In addition to the sediment basin implemented with Section 319 funding, the project also included 520 feet of shoreline stabilization (PLWIP) and construction of ten water and sediment control basins (CPP).

**Project Location:** Macoupin County

**Subgrantee:** Village of Royal Lakes  
549 West Shipman Road  
Shipman, Illinois 62685

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>350</td>
<td>Sediment Basin</td>
<td>1 (no.)</td>
<td>244</td>
<td>25</td>
<td>144</td>
</tr>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>520 (ft.)</td>
<td>265</td>
<td>265</td>
<td>530</td>
</tr>
<tr>
<td>638</td>
<td>Water &amp; Sediment Control Basin</td>
<td>2,000 ft.</td>
<td>58</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

Title: Lincoln Memorial Garden NPS Control – Phase 2

**Purpose:** This project was a continuation of the Lincoln Memorial Garden NPS Pollution Control Project funded under the FFY 1995 Section 319 grant. Lincoln Memorial Garden is listed on the National Historic Register as a “historic landscape”. The project area, recently acquired by the Garden, is across the street from the original garden. The project site is located upstream of a number of in-stream best management practices applied during the original project, all of which are located upstream of Lake Springfield (ILREF). Lincoln Memorial Garden staff coordinated the retrofit of an existing water detention basin into a wetland. In addition, staff coordinated the removal of an accumulation of materials left by the previous landowner (deceased). Garden staff inventoried the materials removed, and identified the most interesting items found. The inventory and special items were used to promote the need to stop illegal dumping and littering.

**Project Location:** Sangamon County

**Subgrantee:** Lincoln Memorial Garden  
2301 East Lake Drive  
Springfield, Illinois 62707
Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>657</td>
<td>Wetland Restoration</td>
<td>0.7 (ac.)</td>
<td></td>
<td>6</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>562</td>
<td>Recreational Area Improvement</td>
<td>6 (ac.)</td>
<td></td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

Title: Salt Creek Stabilization – Rolling Meadows

Purpose: This project reduced erosion and nonpoint source pollution through the stabilization of 1,800 feet of eroding streambank along a 3,000-foot segment of Salt Creek (ILGL09) located in Rolling Meadows, Illinois. Bioengineering techniques (i.e., vegetated gabion baskets, re-grading and stone toe protection, and clearing and revegetation with native vegetation) were used. Salt Creek is a Category 1 watershed in the Unified Watershed Assessment. The TMDL and implementation plan for Salt Creek are complete.

Project Location: Cook County

Subgrantee: City of Rolling Meadows
3600 Kirchoff Road
Rolling Meadows, Illinois 60008

Project Reports and Other Informational Materials:


BMP Implementation Summary:

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Estimated Load Reduction</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580</td>
<td>Streambank/Shoreline Protection</td>
<td>1,800 (ft.)</td>
<td></td>
<td>297</td>
<td>252</td>
<td>504</td>
</tr>
</tbody>
</table>

Title: Northwest Illinois Livestock Project

Purpose: This project involved the implementation of best management practices (BMPs) for milk house waste that are appropriate for northwestern Illinois. The project explained the benefits and limitations for each BMP. Cost share and incentive payments were used to facilitate implementation of new or upgraded milk house waste handling facilities, based on water quality criteria.
**Project Location:** Counties of Carroll, Jo Daviess, Stephenson, and Whiteside

**Subgrantee:** Blackhawk Hills RC&D, Inc.  
102 East Route 30, Suite 2  
Rock Falls, Illinois 61071

**Project Reports and Other Informational Materials:**


**BMP Implementation Summary:**

<table>
<thead>
<tr>
<th>BMP Code</th>
<th>BMP Name</th>
<th>Amount</th>
<th>Sediment (tons/year)</th>
<th>Phosphorus (lbs/year)</th>
<th>Nitrogen (lbs/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>313</td>
<td>Waste Storage Structure</td>
<td>17 (no.)</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

99-23(319)ST (JC)